BULLETIN OF

THE STOUT INSTITUTE

Volume 25 December 1929 Number 4

Twenty-Eighth Annual

Catalog Number

1930-1931

Published Quarterly by The Stout Institute
Menomonie, Wisconsin

Entered as second-class matter March 10, 1927 at the post office at Menomonie, Wis. under the act of August 24, 1912

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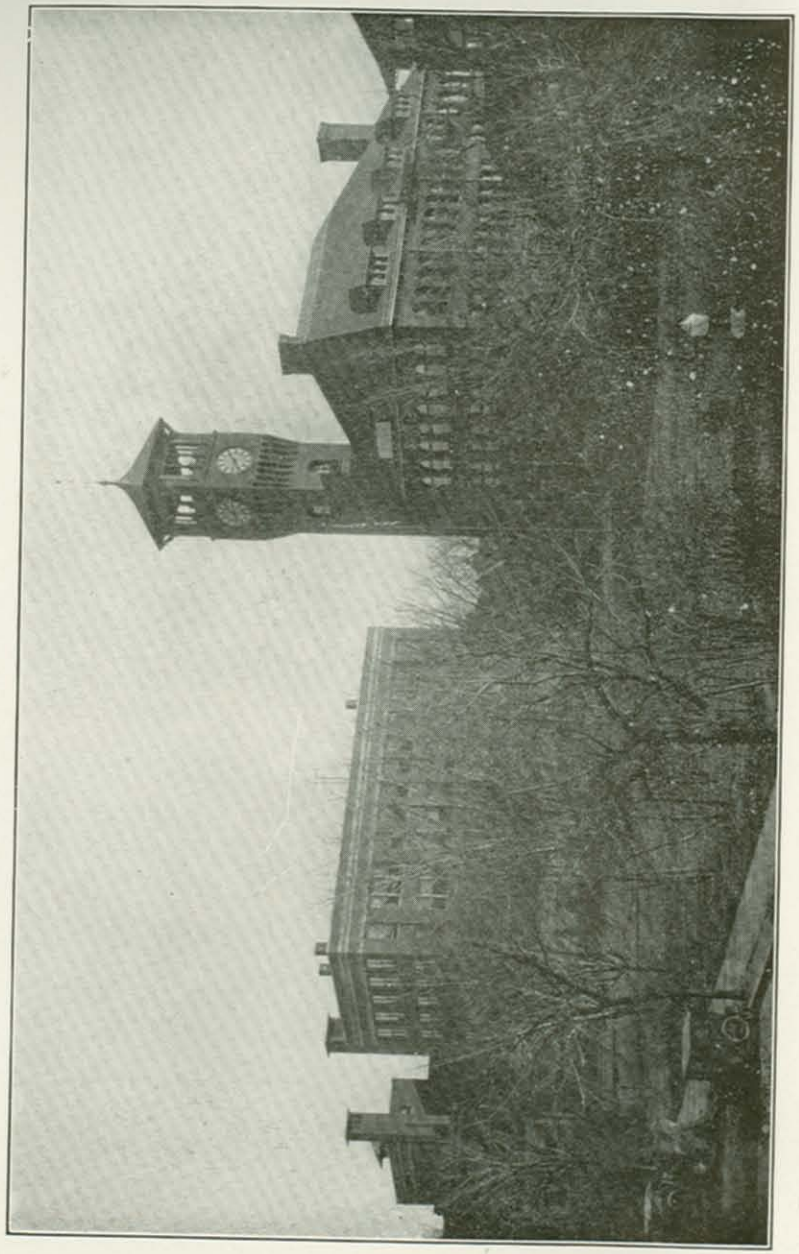
ANNUAL CATALOG
THE STOUT INSTITUTE

Member of the American Association of Teachers Colleges
The Teachers College Division of the North Central Association of Colleges and Secondary Schools and
The American Council on Education

ANNOUNCEMENT
TWENTY-EIGHTH YEAR
1930-31

GENERAL INFORMATION AND
COURSES OF STUDY FOR THE SCHOOL YEAR
INCLUDING SUMMER SESSION
1930-31



INDUSTRIAL BUILDING [RIGHT] AND HOME ECONOMICS BUILDING. GYMNASIUM AND TRADE BUILDING NOT SHOWN

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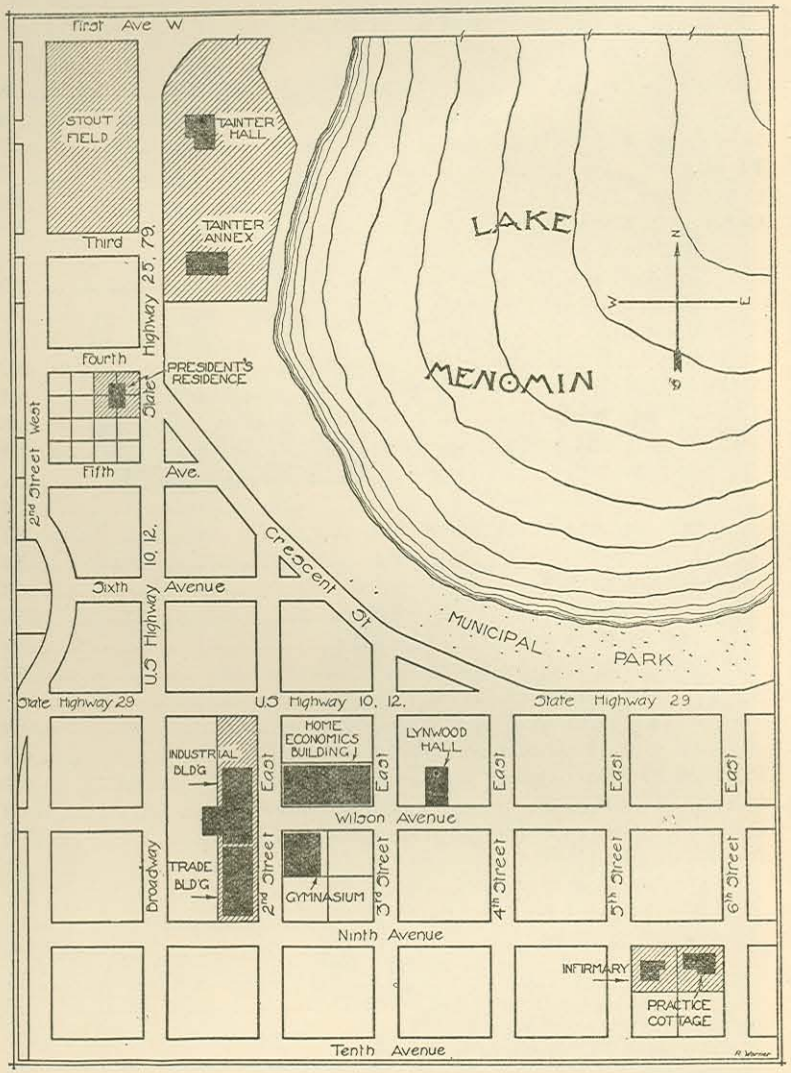

Portion of Menomonie Showing the Location of The Stout Institute Buildings

ANNOUNCEMENT

FOR THE TWENTY-EIGHTH ANNUAL SESSION
AND TWENTY-FIFTH SUMMER SESSION

OF

THE STOUT INSTITUTE
Menomonie, Wisconsin

* * * * *

SECOND SEMESTER 1929-30

Monday, January 27, 1930. Registration Day for Second Semester.

Tuesday, January 28, 1930. Second Semester classes convene.

Thursday, February 6, 1930. Freshman Day.

Sunday, May 25, 1930. Baccalaureate Address.

Thursday, May 29, 1930. Commencement Day.

1930-31

Monday, June 16, 1930. Twenty-fifth Annual Summer Session begins.

Thursday, August 14, 1930. Summer Session closes.

Tuesday, September 9, 1930. Twenty-eighth Regular Session begins. Registration Day.

Wednesday, September 10, 1930. Classes convene.

Tuesday, September 16, 1930. General Faculty Meeting.

Thursday, November 27, 1930. Thanksgiving.

Saturday, December 20, 1930. Holiday Vacation begins.

Tuesday, January 6, 1931. Classes resume.

Friday, January 23, 1931. First Semester ends.

Monday, January 26, 1931. Registration Day for Second Semester.

Tuesday, January 27, 1931. Second Semester classes convene.

Thursday, February 5, 1931. Freshman Day.

Sunday, May 24, 1931. Baccalaureate Address.

Friday, May 29, 1931. Commencement Day.

BOARD OF TRUSTEES

* * * * *

Ex-Officio Members:

JOHN CALLAHAN,
State Superintendent of Public Instruction, Madison.
VOYTA WRABETZ,
State Industrial Commission, Madison.

Employer Members:

Mr. E. W. Schultz, President Northfield Company, Sheboygan.
Mr. E. J. Kearney, President Kearney & Trecker Co., West Allis.
Mr. Robert S. Cooper, President Cooper Company, Kenosha.

Employee Members:

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Mr. Peter Schoemann, 431-16th Avenue, Milwaukee.

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Mr. Wm. F. Dettinger, Hixton.
Mr. R. H. Loether, Eau Claire.

Secretary:

GEORGE P. HAMBRECHT, Madison.

* * * * *

Former President of the Board of Trustees:

H. E. MILES, Racine, 1911 to 1917.

Former President of the Stout Institute:

LORENZO DOW HARVEY, 1903 to 1922.

The Stout Institute, then The Stout Training School, was founded in 1903.

It was taken over by the State of Wisconsin in 1911.
In 1917 it became a four year college and by legislative enactment was given degree granting power.

OFFICERS OF ADMINISTRATION

* * * * * *

BURTON EDSEL NELSON, President.
CLYDE A. BOWMAN, Dean School of Industrial Education. Director of the Summer Session.
RUTH E. MICHAELS, Dean, School of Home Economics.
RUTH E. BELL, Executive Secretary.
GERTRUDE M. O'BRIEN, Registrar. Appointment Secretary.
BRYARD M. FUNK, Business Manager.
LILLIAN M. FROGGATT, Librarian.
MERLE M. PRICE, Dean of Men.
JOSEPH T. BURNS, Superintendent of Buildings. Chief Engineer.
GRACE M. DOW, Director of Halls and Housing. Preceptress, Tainter Hall.
FREDA M. BACHMAN, Preceptress, Lynwood Hall.
HILDA BALERUD, Preceptress, Tainter Annex.
JULIUS BLOM, M. D., (Oslo, Norway) College Medical Examiner.
CLARE M. WANGEN, College Nurse.

* * * * *

ROBERT BRUCE ANTRIM, Assistant Librarian.
MYRTLE STRAND, Assistant Librarian.
AGNES WINSTON, Assistant to Registrar.
CLARA J. YOHR, Secretary to Deans.
HELEN B. STAVERLOK, General Office.

FACULTY

* * * * * *

BURTON E. NELSON, President.
Pennsylvania State Normal School, 1884; B. S. Western Normal College, 1891; M. S., 1895; High School Principal four years; Superintendent City Schools, Lewiston, Illinois, seven years; Superintendent City Schools, Lincoln, Illinois, four years; Superintendent City Schools, Racine, Wisconsin, fourteen years; President, The Stout Institute, 1923—

FREDA M. BACHMAN, Biological Science.
Miami University, Oxford, Ohio, 1907 A. B.; 1908 M. A.; University of Wisconsin, Fellow in Botany 1908-1909; Assistant in

Botany and Plant Pathology 1909-1912, Ph. D.; Milwaukee Downer College, Asst. Prof. Botany and Bacteriology, 1912—1914; University of Wisconsin, Instructor in Agricultural Bacteriology, 1914-1924; Stout Institute, 1924—

HILDA BALERUD, Physical Education for Women.
Battle Creek College of Physical Education 1923; La Crosse State Normal School, Specialized Department in Physical Education, Diploma, 1926; American Institute of Normal Methods, Summer Session 1926; Music; University of Washington Summer Session 1928; The Stout Institute 1926—

CLARA LOUISE BOUGHTON, Home Economics Education.
State Normal School, Milwaukee, 1890-1893; Stout Institute Diploma, 1910; Stout Institute B. S. in Household Arts, 1921; University of Chicago, Summer Session, 1927; Teacher in Public Schools, Manitowoc, 1893-1909; Director of Domestic Science, Racine, 1910-1911; Stout Institute, 1911—

CLYDE A. BOWMAN, Industrial Education.
River Falls, Wis., State Normal, 1907; Stout Institute, January, 1909; Columbia University Bachelor of Science Degree and Professional Diploma in Supervision of Industrial Arts, 1915; Graduate Work Columbia University, 1916, 1919, University of Wisconsin, M. S. 1927; Summer Sessions Stout Institute, 1907, 1908, 1909, 1911, 1913; University of Wisconsin 1912; Columbia University, 1915; Shop Instructor, El Paso, Texas, 1909; Director Manual Arts, City Schools, Stillwater, Minnesota, 1909-1911; Director Department Manual Arts, State Normal, Stevens Point, Wisconsin, 1911-1914, 1915-1916 (leave of absence 1914-1915); Instructor and Associate Adviser in Industrial Arts, Teachers College, Columbia University, New York City, 1916-1919; Stout Institute, 1919—

ARTHUR G. BROWN, Education.
Macalaster College, 1914, B. S.; Stout Institute, Summer Session, 1914; University of Chicago, Summer Session, 1919; University of Wisconsin, 1928, M. S.; Instructor of Manual Arts and Athletic Coach, City Schools, Le Suer, Minn., Two Years, and City Schools, Bottineau, North Dakota, One Year; Director of Athletics and Head of Department of Manual Arts, Forestry State Normal School, Bottineau, North Dakota, Four Years. Stout Institute, 1920—

MARY LOUISE BUCHANAN, Foods.
Iowa State College, Ames, Iowa, B. S. 1915; Summer Sessions; Teachers College, Columbia University, 1919; Iowa State College 1921; University of California, 1924; Iowa State College, M. S. 1927; Teacher of Foods, High School, Cedar Rapids, Iowa, 1915-1921; Teacher of Foods, High School, Omaha, Nebraska, 1921-1926. Stout Institute, 1927—

ALICE M. BURGOIN, Cafeteria Management.
Nebraska Wesleyan University, B. S., 1922; Colorado State Teachers College, Greeley, Colorado, Summer Session, 1922. Principal, Pacific Junction High School, 1922-1925; Principal, Elliott, Iowa, High School, 1925-1928; Teaching Fellow, Institutional Administration, Iowa State College, 1928-29; M. A. 1929; Assistant Foods Director, Memorial Union, Iowa State College, Summer, 1929; The Stout Institute, 1929—

GERTRUDE L. CALLAHAN, English.
State Normal School, Oshkosh, 1910; University of Chicago, Ph. B., 1912; University of Wisconsin, Ph. M., 1927; Teacher of English in High School, Waupun, Wisconsin, 1913-1915; Teacher of English in Senior High School, Jamestown, North Dakota, 1916-1918; Instructor in English, University of Wisconsin, 1919-1920; Teacher of English in South Division High School, Milwaukee, 1920-1922; Teacher of English in East Side High School, Madison, 1923-1925; Instructor in English, University of Wisconsin, 1925-1927; Stout Institute, 1927—

LILLIAN CARSON, Related Arts.
Earlham College, Richmond, Indiana, University of Chicago, Ph. B. 1919 and M. S. 1926; Instructor and Supervisor of Home Economics, Newcastle, Indiana, 1915-1918; Instructor Related Art, Oklahoma Agricultural and Mechanical College, Stillwater, Oklahoma, 1919-1921; Assistant Professor of Home Economics, Lewis Institute, Chicago, 1921-1925; Stout Institute, 1927.

MARGARET WINNONA CRUISE, Nutrition.
University of Toronto, Toronto, Canada, B. A., 1912; Columbia University, M. A., 1918; Summer Sessions, University of Chicago, 1925, 1926, 1927; Teacher in Public Schools, Port Dover, Ontario, 1905-1907; Dietition, Johns Hopkins Hospital, 1912-1913; Head, School of Household Science, Mount Allison College, Sackville, N. B., 1913-1915; Lecturer of Household Science, University of Toronto, 1915-1917; Instructor of Dietetics and Household Science, Oregon State College, 1918-1920; Lecturer of Nutrition and Household Science, MacDonald College, McGill University, Ste. Anne, Que., 1921-1926. The Stout Institute, 1927—

FRED L. CURRAN, Industrial Education.
State Normal School, Stevens Point, Wisconsin, 1905; Stout Institute, Diploma, 1909; B. S. 1921; Bradley Polytechnic Institute, Summers, 1908, 1909. Teachers College, Columbia University, Summer Session, 1928. Teacher in Public Schools, 1898-1903; Principal State Graded Schools, 1905-1907; Stout Institute, 1908—

WALTER B. DAVISON, Social Science.
State Normal School, Superior, Wis., 1906; University of Wisconsin, B. A., 1908; University of Wisconsin, M. A., 1911; University of Wisconsin, Summer, 1921; University of Minnesota, Summer, 1924; Head of Department of Social Studies, Blaine High School, Superior, Wis., 1909-1910; Director of Civics, Indianapolis Schools, Indianapolis, Ind., 1910-1914; Head of Department of History and Social Science, State Normal School, River Falls, Wis., 1914-1926; Stout Institute, 1926—

JAS. M. EARLY, Architectural Drawing.
Berea College, School of Agriculture, Berea, Ky., 1902; Berea College, Vocational School, 1905; Foreman, Berea College Woodwork Department, 1907; Architect and Builder, Roann and North Manchester, Indiana, 1909-13; City Engineer (Civil),

North Manchester, Indiana, 1912-13; Receiving Class A. Certificate of Professional Training, State of Indiana, 1914; High School Teacher, Mechanical Drawing, and Manual Training, North Manchester, Indiana, 1913-14; Instructor, State Normal and Training School, Oswego, New York, 1914-19; Iowa State College, Assistant Professor, Trades and Industries, 1919-23; Professional architect, Ames, Iowa, 1923-29; The Stout Institute 1929—

JOHN FAVILLE, JR., Social Science, Journalism.
Lawrence College, 1917; Beloit College, B. A., 1921; University of Wisconsin Summer Session, 1924; Advertising and Publicity Work, 1921-24, Bradley Knitting Co., Goddard Sales Co., S. S. Kresge Co.; Instructor in English and Coach of Debate, Oshkosh High School, 1924-25; The Stout Institute, 1925—

LILLIAN MARY FROGGATT, Library Administration.
University of Wisconsin, B. A., 1911. Library School of the University of Wisconsin, 1920. High School Instructor, 1911—1919. Teacher Librarian, High School, Burlington, Wisconsin, 1921-1923. Cataloger, Public Library, Racine, Wisconsin, 1920—1921. Teacher, Courses in Library Methods, State Normal School, Oshkosh, Wisconsin, 1922. The Stout Institute, 1924—

ALMA MAY GANZ, Home Economics Education.
The Stout Institute, Diploma, June 1917; Stout Institute, 1924-25, Summer School, 1925. University of Minnesota, B. S., 1928. Teacher, Colfax High School, Colfax, Wis., 1917-18; Buffalo County Rural Normal, Alma, Wisconsin, 1918-21; Supervisor of Student Teaching, Clothing, State Teachers College, Valley City, North Dakota, 1921-23; Supervisor of Home Economics Department, La Crosse Vocational School; La Crosse, Wisconsin, 1925-27; Teacher Trainer for Vocational Home Economics Teachers, State Teachers College, Stevens Point, Wisconsin, Summers of 1926 and 1927; Teacher Trainer for Vocational Home Economics Teachers, Department of Education, University of Wisconsin, Summer, 1928 and 1929; Supervisor of Day and Evening Vocational Home Economics Classes, Wausau Vocational School, Wausau, Wisconsin, 1928-29; The Stout Institute, 1929—

H. F. GOOD, Auto Mechanics, Electrical Work, Science.
Iowa State College, B. S. in Electrical Engineering, 1913; B. S. in Agricultural Engineering, 1914, M. S. in Industrial Education 1929; Instructor in Agricultural Engineering, Dunn County School of Agriculture, 1914-1918; Special Training in Gas Engines, Tractors and automobiles; Foreman of Construction Work in Electric Railway Shops, Stout Institute, 1918—

DANIEL GREEN, Machine Drafting.
Whitewater, Wisconsin, State Normal, 1900-1902; Mechanical Engineering, University of Wisconsin, 1902-1905; B. S. Degree, University of Chicago, 1914; Instructor and director of shop work and drawing, Des Moines, Iowa, Louisville, Kentucky, Marquette, Michigan, and Elgin, Illinois, 1906-1917; Head of Department of Industrial Education, State Normal School, Macomb, Illinois, 1917-1918; Assistant Superintendent, Midland Chemical Company, Argo, Illinois, 1918-1922; Director Vocational Education, Richmond, Indiana, 1922-1924; The Stout Institute, 1924—

C. W. HAGUE, Printing.
Practical Printer, Seven Years Experience, Hamline University 1912-1913; University of Wisconsin Summer Session, 1915; Lawrence College, 1914-1917, B. A. Degree. Seven Weeks at Intertype Factory School, Brooklyn, N. Y., Summer 1922, Certificate. One Year's Experience Teaching Drafting and Applied Mathematics for Electricians, School of Engineering of Milwaukee; One Year as Instructor of Printing, Vocational School, Appleton, Wisconsin; Harvard University, Cambridge, Massachusetts, Summer Session, 1929; Stout Institute, 1919—

H. M. HANSEN, Advanced Woodwork.
Stout Institute, 1918. University of Wisconsin, Summer Session, 1919. Forest Products Laboratory, Special Courses, 1920-1923. Stout Institute, 1927, B. S. Building Trades Experience 16 years; (Knapp-Stout Lumber Company one year. Carpentry, two years. Sash and Door, Planing Mill and Cabinetwork, four years. Patternmaking and Machineshop, one year. Drafting, one year. In the Contracting Business six years. Building Superintendence, one year.) Vocational School Instruction, (Saturdays) two years. Stout Institute, 1912—

VIOLET M. HASSLER, Public Speaking.
Kansas State Teachers College, Emporia, Kansas, B. S., 1925; Northwestern University, Evanston, Ill., 1928-29. Teacher, Grade School, Carlton, Kansas, 1920-21; Instructor, Speech Department, Kansas State Teachers College, Emporia, Kansas, 1925-28. The Stout Institute, 1929—

CHARLES H. INGRAHAM, Band.
Band directing five summers under F. G. Dana, Third Regiment National Guard Band, Camp Douglas 1891-1894. Direction of Chorus and Assembly Singing under Prof. Lawrence, Columbia University, Summer Session 1918. Organized and Directed for Nineteen Years the Ludington Guard Band, 1888-1907. Organized and Directed Bands, Orchestra and other musical organizations since 1888. The Stout Institute 1926—

LILLIAN JETER, Clothing and Related Art.
Kansas State Agricultural College, 1916 B. S.; Teachers College, Columbia University, 1925, M. A.; Teachers College, Columbia University, Summer of 1926; Teacher of Clothing and Textiles, Fremont High School, Fremont, Nebraska, 1916-1919; Head, Home Economics Department, Nebraska Wesleyan University, Lincoln, Nebraska, 1919-1926; Head, Clothing and Textiles Department, Alabama College, Montevedo, Alabama, 1926-1927; Stout Institute, 1927—

THOMAS W. JOHNSTON, Woodturning, Sheet Metal.
University of Illinois, 1908-1910; Bradley Polytechnic Institute, 1910-1912; Columbia University, 1916, B. S.; Special Work in University of Wisconsin, and Washington University, St. Louis, Missouri; Head Manual Training Department, Public Schools, Washington, Iowa, 1911; Instructor, Manual Training, Industrial School, Pittsburgh, Pennsylvania, 1913; Instructor, High

School, Duluth, Minnesota, 1918-1920; Instructor, Grade and High Schools, St. Louis, Missouri 1914-1918, 1920-1922; The Stout Institute, 1926—

FLOYD KEITH, General Metals, Sheet Metal.
River Falls Normal diploma advanced course, 1915. Stout Institute, B. S. degree, 1922. Iowa State College, M. S. Degree, 1929. Three seasons recreational work, Winnipeg, Canada. Five years Instructor in Industrial work in Wisconsin High Schools. Practical experience in the metal trades; Stout Institute, 1922—

RAY F. KRANZUSCH, Auto Mechanics, Radio and Home Mechanics.
The Stout Institute, First Scholarship, 1920-1921. Journeyman Electrical Construction and Repair, Five and One-half Years; Instructor in Electrical, Auto Mechanics and Radio, Sheboygan High School, Sheboygan Vocational School, 1921-1924; Electrical, Auto Mechanics, Radio, and Home Mechanics Summer Session Stout Institute, 1923; The Stout Institute, 1924—

MABEL H. LEEDOM, Chemistry.
City Normal School, Dayton, Ohio, 1894; Stout Institute Diploma, 1910; Columbia University, Summer Session, 1913; Teachers College, Columbia University, B. S., 1919, Graduate study, Columbia Schools, Dayton, Ohio, 1895-1905; Stout Institute, 1910-1918; 1920—

MARY M. McCALMONT, Chemistry.
Westminister College, New Wilmington, Pennsylvania, B. S.; Graduate Student, University of Omaha, Nebraska, 1911; University of Wisconsin, 1911-1912, M. S. 1921; Teacher in Public Schools, 1906-1907; Principal of High School and Supervisor of Music, Woodville, Ohio, 1907-1909; City Schools, Omaha, Nebraska, 1909-1911; Stout Institute, 1912—

MARY I. McFADDEN, Education.
State Normal School, Oshkosh, 1897; University of Wisconsin, Ph. B., 1900; A. M., 1907; University of Chicago, Ph. M., 1901; Teachers College, Columbia University, January, 1908—June, 1908. Teacher, Grand Rapids High School, 1891-1892; Principal, Menomonee Falls High School, 1892-1893; Assistant Principal Oconto High School, 1893-1895; Associate Supervisor of Practice Oshkosh Normal School, 1901-1906; Acting Assistant Professor of Education, University of Kansas, One Semester, 1906-1908; Principal Muskegon City Normal School, 1909-1910; Supervisor of Practice, Teacher of Pedagogy and Music, Sauk County Training School, 1911-1912; Stout Institute, 1912—

RUTH E. MICHAELS, Home Economics Education.
State Normal School, Milwaukee, 1902; Stout Institute, 1905; University of Chicago, Ph. B., 1922; Columbia University, M. A., 1923; Instructor, Normal School, Cape Giradeau, Mo., 1905-1907; Head, Foods Department, Cape Girardeau, 1907-1911; Instructor, Foods Department, Iowa State College, 1911-1913; Assistant Professor and Supervisor of Practice Teaching, Iowa State College, 1913-1915; Head, Home Economics Department, State College, Stillwater, Okla., 1915-1916; Dean, Home Economics Divison, State College, Stillwater, Okla., 1916-1921; Assistant Professor, Home Economics, University of Pennsylvania, 1923-1927; The Stout Institute, 1927—

MERNA M. MILLER, Biological Science.
Stevens Point Normal, Stevens Point, Wisconsin, 1922-24; Ripon College, 1926, Ph. B., Fellow in Botony, 1926; University of Wisconsin, 1926-27, M. S.; Instructor in LaGrange College, LaGrange, Missouri, 1927-28; Stout Institute, 1928—

H. C. MILNES, Machine Shop Practice, Foundry Work, Patternmaking
Armour Institute, 1904-1906; Columbia University, Summer, 1909; Chicago University, Summers, 1910, 1911; Stout Institute, 1928, B. S. Four Years Practical Work in Machine Trades. Teacher of Manual Arts, Evansville, Indiana, 1909-1916; Stout Institute, 1916—

MAMIE RUSSELL MUTZ, Related Art.
State Normal, Peru, Nebraska, Diploma, 1904; University of Chicago, 1907-1908, Ph. B., 1916; Student Art Institute, Chicago, Saturday classes 1907-1908; Applied Arts Summer School, Chicago, 1920; California School of Fine Arts, 1922-1923; State Normal, Peru, Nebraska, Critic, 1905-1907; Supervisor of Art, Training School, 1908-1911; Director Department of Art, 1911-1922; Colorado State Teachers College, Art Department, Spring and Summer, 1922; Stout Institute, 1923—

PAUL C. NELSON, Elements of Woodwork, Carpentry, and Woodfinishing.
The Stout Institute Summer Sessions 1918, 1919, 1924, 1925, and 1926. Total trade experience eighteen years (Apprenticeship Cabinetmaking and Carpentry, five years. Journeyman Cabinetmaking and Millwork, four and one-half years. Foreman Cabinetmaking and Stair building, four years. Journeyman Carpentry two and one-half years. Building contracting business, two years.) Instructor Cabinetmaking, Woodfinishing, Carpentry, and Architectural drawing. Vocational School and High School, Racine, Wisconsin, eight years. Evening classes in Cabinetmaking and in trade preparatory and trade extension work in the Building Trades Six Seasons. Elements of Woodwork, The Stout Institute Summer Session 1926, The Stout Institute 1926—

SYLVESTER E. PAULUS, English, Coaching.
Hanover College, Hanover, Indiana, B. A., 1920; Summer Sessions, University of Illinois, University of Iowa; Athletic Director, Daniel Baker College, Brownwood, Texas, 1920-1921; Instructor, English and History, and Director of Athletics, High School, Nogales, Arizona, 1921-1923; Director, Physical Education and Athletics, High School, Tuscon, Arizona, 1923-1927; Stout Institute, 1927—

GRACE M. PRICE, Vocational Home Economics Education.
State Normal School, Stevens Point, Wisconsin, Diploma, 1921; University of Chicago, Ph. B., 1924; Summer Sessions, Stevens Point Normal, 1921; Teachers College, Columbia University, 1921; Oregon Agricultural College, Corvallis, Oregon, 1922; University of Chicago, 1923; Teacher in Vocational School, Fond du Lac, Wisconsin, 1921-1922; Head of Home Economics De-

partment, Fond du Lac Vocational School, 1922-1923; Teacher Trainer of Vocational Home Economics Education of Wisconsin, State Board of Vocational Education, June 1924; University of Wisconsin, Summer Session, 1924. The Stout Institute, 1924—

MERLE M. PRICE, History, Dean of Men.
State Teachers College, St. Cloud, Minn., Diploma, June, 1921; University of Minnesota, College of Education, B. S., 1924; M. A., 1929. H. S. Principle, Gonvick, Minn., 1921-22; H. S. Principal, Park Rapids, Minn., 1922-23; Teacher, Advanced English, Extension Division, Minneapolis Public Schools, 1923-24; H. S. Principal, Grand Marais, Minn., 1924-26; Teaching Assistant and Quizmaster, University of Minnesota, 1926-27; Administration Fellow, University of Minnesota, 1927-29; The Stout Institute, 1929—

HELEN SARCHET, English.
Grinnell College, Grinnell, Iowa, 1920-21; College of Education, University of Minnesota, B. S., 1924; Summer Session, University of Minnesota, 1925; University of Minnesota, M. A. 1927; Teacher in High School, Excelsior, Minnesota, 1924-1926; Stout Institute, 1927—

HELEN C. SMITH, Director of Nursery School.
State Teachers College, Albany, New York, 1910-1912; Teachers College, Columbia University, New York City, B. S., 1925; Teachers College, Columbia University, New York City, M. A., 1928; Merrill-Palmer School, Detroit, Michigan, 1927-28; University of Cincinnati, 1928-29; University of Minnesota, Summer Session, 1929. Teacher, Home Economics, Easton, Penn., High School, 1912-1914; Teacher, Home Economics, Elmira, New York, High School, 1914-1918; Teacher, Home Economics, Syracuse University, 1919-1920; Instructor, State Teachers College, Buffalo, New York, 1921-1923; 1925-1927; Laura Spellman Rockerfeller Scholar in Parental Education and Child Dev. elopment, 1927-1929; The Stout Institute, 1929—

E. FAITH STRAYER, Home Administration.
Baker University, Baldwin, Kansas, 1919-21; Kansas State Agricultural College, Manhattan, Kansas, 1921-24; B. S. 1924; University of Chicago, M. A. 1929. Teacher, Vocational Home Economics, Kansas Rural High Schools, 1922-23; 1924-25. Teacher, Foods, Arkansas City, Kansas, High School, 1925-26; Teacher Home Economics, Joliet Part-time School and Joliet Township High School, Joliet, Ill., 1927-28; Stout Institute, 1929—

F. E. TUSTISON, Mathematics, Science, Home Mechanics.
Graduate Ohio Wesleyan University, 1909; B. S. Summer Session of Chicago University, 1916; Summer Session, Case School of Applied Science, 1917; University of Wisconsin, 1928, M. S. Practical Experience in Electrical Installation, Motor Testing, and Cabinetmaking. Director of Gymnasium of Shattuck Military Academy, 1909-1910; Instructor of Science, Somerset High School, 1910-1920; Acting Superintendent of Somerset City Schools, 1919; Stout Institute. 1920—

ROY R. VAN DUZEE, Education, Home Mechanics in Summer Session.
Stout Institute diploma 1914, Stout Institute B. S. Degree 1923; Summer Session Stout Institute 1914, University of Wisconsin 1915, Columbia University 1916; Instructor Manual Arts and Athletic Coaching, City Schools, Bismark, North Dakota, 1914-1915, Supervisor of Industrial Arts and Athhletic Director, City Schools, Minot, North Dakota, 1915-1917, 1919-1922, Director U. S. Postal School Beincourt, France, Winter 1918-1919, Supervisor of Industrial Arts, Public Schools, West Allis, Wisconsin, 1923—, Instructor in Organization of Industrial Arts, Methods of Teaching High School Woodwork and Elements of Woodwork, University of Iowa, two terms summer 1926, Stout Institute Summer Sessions 1927-28-29.

HAZEL VAN NESS, Clothing.
Syracuse University, B. S., 1921; Columbia University,, A. M., 1929. Instructor, Clothing and Design, Syracuse University, 1922-27; Assistant Professor, Clothing, Colorado Agricultural College, 1927-28; The Stout Institute, 1929—

LETTY E. WALSH, Home Economics Education.
B. A., Iowa State Teachers College, 1915; M. A. and Supervisor of Household Arts Diploma, Columbia University, 1920; Graduate Study, University of Chicago, Summer Session, 1917. Supervisor of Practice Teaching in Home Economics, Iowa State. Teachers College, Cedar Falls, Iowa, 1915-1919. Stout Institute, 1920—

CLARE MARIE WANGEN, School Nurse.
State Normal, Cheney, Washington, Diploma, 1918; University of Washington; Conservatory of Music, Whitman College, 1919-1920; The Johns Hopkins School of Nursing, Diploma, 1924; Maryland R. N., 1924; Post Graduate Work, Johns Hopkins School of Nursing, Summer, 1928; Night Superintendent and Obstetrical Supervisor, Community Hospital, Geneva, Illinois, 1924-1925; Illinois R. N. 1925; Assistant Theoretical Instructor, The Johns Hopkins School of Nursing, 1925-1926; The Johns Hopkins Uunversity, 1925-1926; Stout Institute, 1926—

R. L. WELCH, Vocational Industrial Education.
James Millikin University, Department of Engineering, 1908-1911; Department of Industrial Education, 1914-1915; Stout Institute, Summers, 1916, 1917; Bradley Polytechnic Institute, Summer, 1919; Practical Experience in the Metal Trades, Director of Industrial Arts, Somerset, Kentucky, City Schools, 1915-1916; Instructor of Mechanical Engineering, South Dakota State College, 1916-1918; Stout Institute, 1919—

STANDING COMMITTEES

* * * * * *

The President of Stout Institute is an ex-officio member of all committees.

Advanced Standing and Credentials
C. A. Bowman, Chm.
W. B. Davison
H. F. Good
M. I. McFadden
R. E. Michaels
L. E. Walsh

Assembly
F. L. Curran, Chm.
V. M. Hassler
M. H. Leedom
M. R. Mutz
L. Carson
M. M. Price

Cafeteria
A. M. Burgoin, Chm.
M. W. Cruise
F. M. Bachman
M. L. Buchanan
G. M. Dow

Curriculum
B. E. Nelson, Chm.
C. A. Bowman
G. L. Callahan
W. B. Davison
R. E. Michaels
G. M. Price
R. L. Welch

College Government
W. B. Davison, Chm.
C. A. Bowman
G. L. Callahan
H. F. Good
R. E. Michaels
L. E. Walsh

College History
F. L. Curran, Chm.
C. S. Boughton
M. I. McFadden

Commencement
S. S. A. Officers
F. M. Bachman
H. Balerud
W. B. Davison
S. E. Paulus

Library
L. M. Froggatt, Chm.
L. Jeter
H. C. Milnes
P. C. Nelson
H. Sarchet

Lyceum
W. B. Davison, Chm.
D. Green
F. E. Tustison
L. E. Walsh

Publications
J. Faville, Chm.
H. Sarchet
F. M. Bachman
C. W. Hague
S. E. Paulus

Student Loans
B. E. Nelson, Chm.
G. M. O'Brien
C. A. Bowman
R. E. Michaels
B. M. Funk

Committee on Employment
F. E. Tustison, Chairman
A. G. Brown
H. F. Good
R. F. Kranzusch
M. M. Price
M. H. Leedom
M. I. McFadden
C. L. Boughton

Student Social Activities
A. G. Brown, Chm.
C. A. Bowman
R. F. Kranzusch
R. E. Michaels
G. M. Price
F. E. Tustison
H. C. Smith

FACULTY-STUDENT COMMITTEES AND BOARDS

* * * * * *

Athletic Council
F. Keith, Chm.
S. E. Paulus
H. Balerud
C. A. Bowman
R. E. Michaels
A man and a woman elected from each class—Freshman, Sophomore, Junior, and Senior.

S. S. A. Advisory Board
S. S. A. Officers.
A man and a woman elected from each class, Freshman, Sophomore, Junior, Senior.
This board works in conjuction with the College Government committee.

GENERAL INFORMATION

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REGULAR SESSION, 1930-31

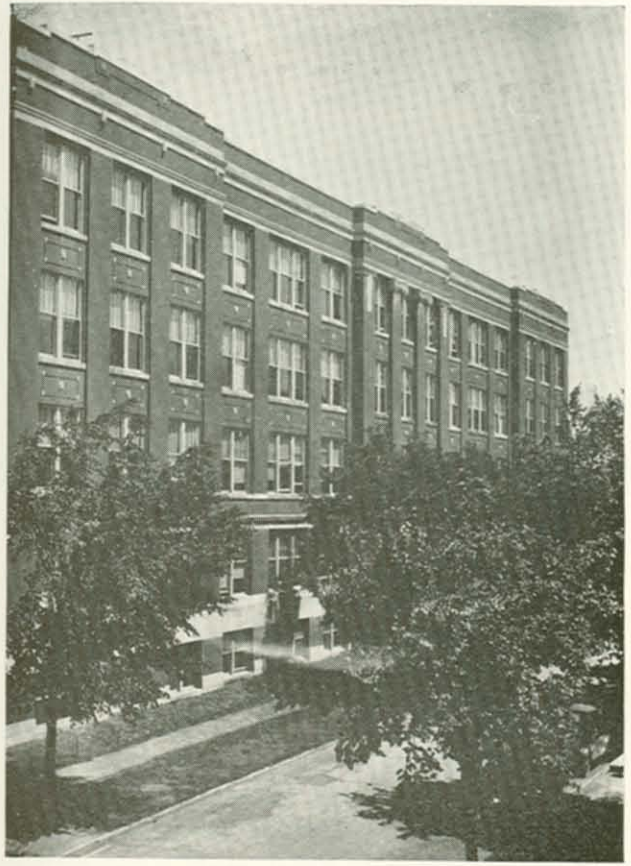
LOCATION

The Stout Institute is located in the city of Menomonie, in western Wisconsin, sixty-six miles east of St. Paul, on the Chicago and North Western Railway. Menomonie is also connected with Mississippi River Points by the Chicago, Milwaukee, and St. Paul Railway.

Since the automobile has become the prevailing means of travel, under this caption it is wise to state that Menomonie is located on United States Highways Nos. 10 and 12 and on State Highways Nos. 16, 25, 29, and 79.

HISTORICAL

Many great educational institutions stand today monuments to family pride, monuments to business success, monuments to individual ambitions. None of these, it would seem, inspired the building of The Stout Institute. The vision of the founder of this institution included at first only an opportunity to serve the young men and the young women who had no opportunity to attend higher institutions of learning, and who through this school could be prepared to do a better piece of work, develop confidence and self-respect, and maintain a happier home; and through the inculcation of higher ideals and genuine standards of honor and truth, do their full part as honored citizens of their country. That was the original motive back of the founding of this school.



THE HOME ECONOMICS BUILDING. INCLUDES ALSO AUDITORIUM, CAFETERIA AND MAIN OFFICES

SOUTH END OF TRADE BUILDING. HOUSE CONSTRUCTION PROJECT OF CARPENTRY CLASS IS SHOWN BEING MOVED FROM SCHOOL SHOP TO PERMANENT LOCATION

The Stout Institute was the pioneer in the placing of instruction in Industrial Arts and Household Arts in a system of public schools. Menomonie was the first city in America in which Manual Training and Home Economics were made a part of the course in all grades of the public school and high school, and this under the supervision and instruction of The Stout Institute.

During the early experimental years these schools were constantly visited and inspected by educators from the far centers east, west, north, and south. The Manual and Household Arts began to find their way into other school systems. Teachers had to be supplied. The Stout Institute alone at that time was ready to furnish them. It was, then, in reply to a general demand that The Stout Institute became a training school, the first in America to dedicate itself wholly to the preparation of teachers of Industrial Arts and Household Arts. It still stands the only—as it was the first—school in this country giving itself wholly to the preparation and training of teachers of Industrial and Household Arts, and certain other occupations closely related to these courses, and for which the standard courses almost equally well prepare these students.

The Stout Institute exists and is here in Menomonie because Menomonie was at one time the great lumber center of the Northwest. It was because of these great lumber interests that James H. Stout came from St. Louis to Menomonie in 1889, and it was these lumber interests which held him here and made him an important factor in the Knapp, Stout and Company, in which connection with the other members of his firm, he amassed a considerable fortune.

But unlike most men with similar opportunity, he acquired money not for the sake of money, but for the good that money can be made to do for the betterment of humanity. He was greatly interested in his community, and his city in many ways benefited from his great-heartedness.

It was James H. Stout who had the vision and conceived the purpose and plan of organization of The Stout Institute. It was his success in the lumber business which made it

possible for him to at least partially realize his dreams before death unfortunately interrupted his work and cut short a program which would have changed completely the future of the school, and would, without doubt, have left the school amply endowed.

The first building erected contained just two rooms, one given to Manual Training, and the other to Domestic Economy, as homemaking work was then termed. The work immediately proved so popular that Mr. Stout erected in 1893 a large building, costing in that day of extremely cheap construction $100,000, and equipped it completely for carrying forward many lines of handiwork. This building served its purpose for only four years, when it was completely destroyed by fire. During the school year 1898-1899 a larger and better building was erected by Mr. Stout as a monument to his faith in the cause he espoused.

Prior to 1903 Mr. Stout's efforts were dedicated to the boys and girls of Menomonie, and all shop and laboratory work was carried forward under the administration of the public schools. In that year, 1903, the character of the school was greatly changed and broadened in scope by the organization of The Stout Training School, and the dedication of its efforts to the training of teachers of Manual and Household Arts.

At this time Lorenzo Dow Harvey, Wisconsin's capable State Superintendent of Public Instruction, nationally recognized as one of the great educational leaders, was made Superintendent of Schools of Menomonie, and President of The Stout Training School. Here began the development of new things in education, the breaking down of century old ideals of education, and the formulating of new standards adapted to all the students of all the schools.

In September, 1903, there were 25 men and women enrolled in the training school. The next year 48 registered, and in 1905, 98 reported. Three years later, in 1908, there were 197 students enrolled, and in 1913, ten years after this organization and leadership became effective, more than 500 students were in attendance. Early in 1908 another important change came, when through articles of incorporation, The

Stout Training School became The Stout Institute, and in the purposes enumerated in its charter could be seen the development of a greater school.

Mr. James H. Stout died in 1910. This was a heavy loss to the institution. Tangible evidence exists showing that had he lived through another half decade, nearly a million dollars would have gone into expansion. After his death the school would not have survived except for the courageous leadership of Dr. Harvey, who prevailed upon the state of Wisconsin to assume all responsibility for the financing of the school.

It was therefore in 1911 that The Stout Institute became a state school. Since that date it has been administered by the State Board of Vocational Education acting as the Board of Trustees of The Stout Institute. Under these new conditions the school assumed new obligations, chief among which was to produce a sufficient supply of competent teachers of Industrial Education and Home Economics for the state. New problems of expansion and specialization had to be met. But the demand for Stout Institute graduates increased so rapidly that a further extension of the courses became imperative. There came now a demand in all of the larger high schools for graduates with four years of college training and a bachelor's degree. The Stout Institute was not authorized up to this time to go beyond the two-year diploma course. No other school was prepared to furnish such instruction as Stout was able to give. Recognizing that fact, the legislature in 1917 extended the courses to four years and endowed The Stout Institute with degree granting power.

For several years the school continued to grant the two-year diploma because the demand far exceeded the supply of four-year graduates.

In the 1925 catalog the two-year course was omitted and the diploma course required three years. Immediately however, a higher standard of preparation was required and with the beginning of the school year in September 1926 all shorter courses were discontinued. Freshman students in the fall of 1926 were enrolled on the four-year basis. The detailed schedules of the several phases of the four-year course are given elsewhere in this catalog.

While the larger part of the students enrolled come from Wisconsin, almost every state in the country is represented in the year's enrollment at Stout Institute. Stout graduates are teaching in virtually every state in the Union. They are teaching in Canada, the Canal Zone, Hawaii, Cuba, and the West Indies. Graduates who can be strongly recommended are generally placed before the degrees are granted. The Stout Institute strives not for enrollment but for accomplishment.

PURPOSE AND ORGANIZATION

The Stout Institute is a state teacher training college administered by the State Board of Vocational Education sitting as the State Board of Trustees of The Stout Institute. The members of this board consist of the State Superintendent of Public Instruction and a member of the state Industrial Commission, ex-officio members; three employers of labor; three employees; and three members representing agriculture, appointed by the Governor of Wisconsin. The Director of Vocational Education elected by the Board of Vocational Education, acts as Secretary of the Board of Trustees.

The revenues for the support of the college are secured through appropriations made by the Legislature of the state beiennially, from tuitions paid by students attending from other states, and from definite stipulated fees authorized by legislation. Supplementing these revenues the college receives the actual cost of carrying on courses in Vocational Teacher Training. This institution has been designated by the State Board of Vocational Education, and by the Federal Board for Vocational Education, as the training school in Wisconsin for the training of vocational and part-time teachers under the Smith-Hughes Act.

The average enrollment for the regular session is approximately 500. The institution administers a complete range of courses in Home Economics and Industrial Education. The enrollment of entering freshmen is restricted to a certain number of sections with a given number of students in each section. This keeps the total enrollment within the capacity of the buildings and equipment of the school.

BUILDINGS AND EQUIPMENT

There are provided four, large, thoroughly equipped buildings, the Home Economics Building, the Industrial Education Building, the Gymnasium, and the Trade Building. In addition there are also dormitories, a Home Management house and Infirmary. The institution represents an investment of over a million and a quarter dollars.

Industrial Education Building

The first building to be erected of the group now used for instruction was the Industrial Education building. It is four stories high, with light basement containing engine room, storage and work rooms. The ground floor plan is extended to a total area of 76 by 182 feet, and the annex contains the machine shop, general metal and foundry. All of these shops are well equipped.

The first floor contains the pressroom, bindery, composing room and lecture room of the printing department. Teachers' offices and office of the Dean are on this floor. The second floor contains teachers' offices, lecture rooms, practice teaching shops and home mechanics shop. The third floor contains lecture and recitation rooms, electrical shops, physics laboratory, and radio room.

The fourth floor is given over entirely to an armory and basketball floor. It has a steel arch trussed roof, providing a full area the size of the main building free from obstructions such as columns or partitions. Seats are banked up at the sides, accommodating eight hundred people conveniently.

Gymnasium and Natatorium

The second building erected in this group was for the Department of Physical Training. The building is 66 by 132 feet, and three stories in height. It contains a very completely equipped gymnasium with running track, measuring room, locker rooms, recreation rooms, and bowling alleys on its west side. Its east side is given over largely to baths and contains a swimming pool, 37 by 87 feet, showers, and a well-arranged series of rooms for Russian and Turkish baths. There are also locker rooms, dressing rooms, and social rooms in the

east side of the building. The physical director's office is located near the main entrance.

On the second and third floors of this building are the club rooms for student activities. These are designed to foster social pleasures and good fellowship among the faculty and students. The rooms on the second floor have been equipped with a billiard table and a pool table, settees, rugs, easy chairs, victrola, etc., through the activities of such student organization as The Stoutonia. A number of magazines are maintained for the reading table in this room. The room is for the use of the men students and is open each night after school and for longer periods over the week-ends.

One of the rooms on the third fioor has been equipped with attractive furniture, rugs, a piano and other furnishings largely through the initiative of the Y. W. C. A.. Another of the rooms has been equipped through the initiative of the Y. M. C. A. These rooms are available for various social activities of the school, religious organizations, literary societies and other school clubs.

Building Trades Building

The third building erected for Stout classes was that given over to shops for teaching the building trades. It is 84 by 175 feet and two stories in height. A basement at one end of the building is entirely above grade level and contains the carpentry shop, 36 by 80 feet. The ceiling of this shop is over twenty feet high and the shop is so constructed that a section of the outside wall, 27 by 20 feet, may be removed, making it possible to move a completed building directly to its proper site. At one end of the shop is a lecture balcony. At the other is a lumber balcony. A moist air dry kiln opens from the lumber balcony and extends into the mill, which adjoins the carpentry shop. The mill is very completely equipped with modern woodworking machinery.

A cabinetmaking shop is connected with the mill and provided with heavy benches, veneer press, sash and door clamp, and a complete glue room. The general woodworking shop is on the other side of the cabinet shop. The auto mechanics shop, located in the next room, is equipped with gasoline engines, automobile motors, burning and running-in machine,

lathe, reboring machine, etc., for handling complete auto repairs. The equipment includes air plant motors with a unit in ground work. On the second floor over the auto shop the auto mechanics electrical work and chassis work are located. The sheet metal shop on the second floor above the auto shop has a complete equipment, including cornice brake, circular shear, burring, turning, and beading machines and proper stakes necessary for carrying on a complete course in sheet metal work.

A middle entrance leads to the second floor corridor and opens onto a conveniently arranged lecture room. A large shop on this floor is given over to painting and wood finishing, with a varnishing room and fire-proof storage for finishing supplies connected. Two large rooms are equipped for architectural and machine drafting and contain an electric blue-printing machine. Elementary Manual Arts is taught in a room especially planned for this work, opening upon this corridor. In addition to its necessary tools and benches, it contains several exhibits and conveniences of interest to the teacher of elementary work.

Home Economics Building

The last building erected at Stout Institute was planned principally for Home Economics classes. It is 126 by 228 feet and four stories in height, with a high basement. Two large elevators are provided for students' use, one at each end of the main corridor. They add greatly to the comfort and convenience of those taking work in this building.

The Stout Institute Library is located in this building on the main floor in the left wing. The rooms are large, well-lighted, and well-ventilated. In addition to the reading room, there is a magazine alcove, stack room, conference room, cataloging room, and repair room.

The administrative offices are located on the first floor and include the President's office, and those of the Secretary, Clerks, Business Manager, Registrar, and Telephone Operator, Offices of the Dean of Home Economics, reception room, exhibit room, and recitation rooms are also located on this floor.

The Auditorium, located in the east wing of the building,

extends up for three stories, with a seating capacity for 800. It is thoroughly equipped as a modern theatre with stage 23 by 50 feet, proscenium arch 32 by 24, decks, fly galleries, and scene loft 50 feet high. There are the usual dressing rooms and lavatories and a stage switchboard controlling all stage and house lights.

The stage equipment includes asbestos drop, picture screen and both interior and exterior scenery. Special settings for the stage for use in concerts and for lecture work have been built by Stout students. Attention has been given to acoustics as well as to the decorative effect of such settings. A picture booth contains both stereopticon lantern and motion picture machine. Fire exits have been provided in all directions and are properly illuminated. Six doors open up at the rear for general exit.

The second floor of the Home Economics building is comprised chiefly of laboratories and class rooms for various household arts, and there is provided some class room space for the teaching of these subjects to children in the secondary schools.

On the third floor of this building are also found the quarters of the Nursery School. A large room has been fitted up as a playroom, having all the facilities necessary for the physical and social development of the child. The sleeping room and bath room are adjacent to the Nursery School proper.

Chemistry and microbiology laboratories occupy most of the fourth floor. These are well-equipped, well ventilated, and well-arranged. This floor also contains recitation rooms and a lecture and demonstration room seating 253. A carbon dioxide refrigerating system takes care of refrigerators for this floor as well as the third floor.

CURRICULA

Courses are offered in both schools leading to the Bachelor of Science degree and the professional diploma in Industrial Education and Home Economics. These courses require four years of work beyond the high school. Upon completion of the four-year course in Industrial Education or Home Economics a diploma is issued which by statute is made the basis for a life certificate after two years of successful teaching in Wisconsin. This life certificate legally qualifies the holder to teach the subjects in which training has been taken, in the public schools of the state. The license to teach is issued by the Wisconsin Department of Public Instruction.

Special two-year courses are also offered in the School of Industrial Education for journeymen who are not high school graduates. A vocational certificate is issued upon the completion of this course and is made the basis of a vocational license issued by the State Department of Vocational Education of Wisconsin, permitting the holder to teach in vocational schools in the state.

RESIDENCE REQUIREMENTS

The minimum residence requirements shall be one year of attendance at The Stout Institute. A diploma graduate of The Stout Institute may meet residence requirements for the degree with the minimum of two summer sessions or one semester of attendance at The Stout Institute, subsequent to receipt of diploma, provided the total residence of such student in The Stout Institute for both diploma and degree is not less than one and one-half years. Residence requirements for the degree of Bachelor of Science should not be construed as being met in any instance unless a minimum of two summers or one semester of work in residence has been completed subsequent to the date of receiving diploma. Four nine-weeks summer sessions are equivalent to one year of residence.

GENERAL REQUIREMENTS

The degree of Bachelor of Science is conferred upon students completing the work of either of the two schools, Industrial Education and Home Economics, upon the completion of the four year curricula and including the required professional courses. Fully registered students must complete 128 semester hours, plus special requirements in Physical Education.

QUALIFICATIONS FOR ADMISSION

Entrance requirements of The Stout Institute shall be in-

terpreted as graduation from an approved high school or equivalent training. Not less than 15 units shall be accepted.

Such graduation or equivalency shall include high school units as follows:

(1) Required:

English .....3 units
Algebra or Geometry.....1 unit
Science .....1 unit
Social Studies.....1 unit

(2) Not less than 5 units from the following group:

Foreign Language
Social Studies
Mathematics
Science
English

(3) Not more than 4 units from any other subjects accepted for high school graduation.

A certificate of recommendation, which may be secured from the principal of the high school, should be filed with the Executive Secretary as early as possible. Students entering Stout are required to submit a physician's certification of their physical condition. A supplementary examination is made of all first year students and an annual examination of all students is required during the other years of attendance at this institution. This examination is made by a consulting physician connected with the institution. The charge for this examination is included in the infirmary fee referred to elsewhere. These credentials together with a statement of approved rooming arrangements are required before the enrollment shall be considered complete.

For admission to the vocational special course, high school graduation is not required, but letters indicating trade experience are required.

SPECIAL STUDENTS

All students taking work for credit toward diplomas or degrees are regular students. The Administration urges very strongly that all students enter regular courses and take the work outlined for those courses, even though they may not be able to stay on for the time required to complete the courses. Students are given special classification only when age and the preparation of the applicant, in the opinion of the President, make such classification expedient and justifiable.

CREDITS AND GRADE POINTS

In order to receive a degree, the student must gain not only the number of credits in the course which he is pursuing, but his studies must reach a certain average of excellence. This standard is fixed by the grade point system, which requires for graduation as many grade points as credits. Grade points shall be apportioned as follows:

A (94-100) 3 grade points per semester hour credit
B (86-93) 2 grade points per semester hour credit
C (78-85) 1 grade point per semester hour credit
D (70-77) 0 grade points per semester hour credit

The maximum number of grade points that can be secured by a student graduating with 132 credits, is 396; the minimum is 132. Students who graduate under the 128 hour curriculum must earn 128 grade points. It is evident that an average grade of C is necessary for graduation. Students who fall behind in the required number of points are inelligible for graduation.

In determining grade points for two-year graduates of The Stout Institute who reentered after September 1927, only such credits as are earned after that date shall be used in computing the number of grade points for such students. When computing grade points for students who enter with advanced credits, only those credits which are earned in The Stout Institute after September 1927, shall be used in computation. In order to qualify for a degree, such transferred students must receive as many grade points as the number of semester hours required for obtaining a degree.

All students entering with transferred credits from other institutions with grades of C or above, shall enter with the grade of C.

The number of cuts from any course shall be directly in proportion to the number of semester hours credit in that

course. The following tabulation summarizes the cut rules:

5 hour course	5 cuts
4 hour course	4 cuts
3 hour course	3 cuts
2 hour course	2 cuts
1 hour course	1 cut

The penalty for each absence beyond the cuts allowed in a course shall be a three per cent reduction from the individual's numerical grade for the work in the course.

The days on which no cuts are allowed are the last school day before a school recess and the first school day after a school recess. An absence on a no-cut day shall cause a three per cent reduction from the student's grade regardless of the number of previous cuts.

Any student who is too ill to attend classes should report at once to the school nurse. Any student living in Menomonie shall have his or her parents or guardian notify the school nurse. Cases of very severe illness or other serious situations that will enforce prolonged absence shall be referred to the Deans. In such cases an incomplete can be reported. To secure a record of incomplete, a student must have in that course, at the time of withdrawal, a passing grade. Such a record of incomplete shall be granted only in cases in which the absences incurred have been due to situations over which neither the teacher nor student has any control.

TRANSFERRED CREDITS

Students entering The Stout Institute who have had any work whatsoever in another institution of higher learning, regardless of whether or not they wish to receive credit for it, must submit complete credentials of both their high school and college work. All such transcripts and supplementary material should be sent at least six weeks preceding the opening of the session the student desires to enter.

Graduate students who hold a Bachelor's degree from other institutions must spend one year in residence and meet the minimum requirements of their major in order to obtain the degree of Bachelor of Science from Stout Institute.

A maximum of eight semester hours of foreign language

will be allowed as elective credit with a minimum of not less than four semester hours in one language.

Thirty semester hours of approved courses done through Extension or Correspondence, not more than ten semester hours of which shall be Correspondence credit, shall be the limit accepted by The Stout Institute for graduation requirements.

REGISTRATION

Persons who plan to enter Stout should fill out an application for enrollment in advance. Blanks will be furnished upon request. This enrollment blank, including the Health Certificate, when filled out, should be forwarded to the President. While advance enrollment is not absolutely necessary, it is advisable as the number admitted to beginning classes is limited and advance enrollment insures a place in these limited sections.

All students are expected to register on general registration days assigned in the calendar in the college catalog. Late registration is not approved. In cases of registration after the first week of school, a $5.00 fee will be charged. No registration after the second week will be accepted.

TUITION, REGULAR SESSION

Tuition is free for residents of Wisconsin. The tuition charge for non-residents and the definition of non-residents is covered in the following quotation from the Wisconsin statutes:

"Any student attending The Stout Institute who shall not have been a resident of the state for one year next preceding his first admission thereto shall pay a tuition fee of one hundred twenty-four dollars for the school year and a proportionate amount for attendance at the summer session."

Tuition is payable in advance each semester.

SHOP AND LABORATORY FEES

Fees are charged for shop and laboratory courses to cover the per capita cost of material used by students in these courses. The amount of the fee is given in connection with

the outline of each course. In addition to the shop and laboratory fees, students are required to pay for any breakage of equipment or damage to buildings for which they are responsible. Fees are payable registration day at the beginning of each semester and summer session. The fee receipt is to be retained by student to gain admittance to classes. A charge is made for duplicate receipts.

LIBRARY FEES

A library fee of $3.50 is payable at the beginning of each semester. This is required of each student. For this fee all necessary textbooks are furnished from the loan textbook library without any extra charge to students. The reference library is supplied with standard books needed to supplement textbooks in different subjects.

The reading room is supplied with daily and weekly newspapers, educational, literary, and technical periodicals, adapted to the needs of the students and available for their use.

In addition to the Stout Institute Library students have access to the Memorial Free Library, one block from the Stout Institute main buildings. The combined facilities of the two libraries make available 32,000 volumes, exclusive of public documents.

SPECIAL EXAMINATION FEE

A fee of two dollars is charged for any special, final, individual examination given for the purpose of determining student's credit. The special arrangements for such examinations and permits are secured with either the Dean of the School of Home Economics or the Dean of the School of Industrial Education depending upon the work to be covered in the examination.

Estimates on Usual Expenses Incurred by a Student for a Regular Session of Thirty-Six Weeks

Library Fee (Semester $3.50)	7.00	7.00
Physical Education Fee (Semester $2.00)	4.00	4.00
Infirmary Fee (Semester $2.50)	5.00	5.00
S. S. A. Membership	10.00	10.00

Room (Average dormitory rate for women) Rooms out in town vary according to desirability of room and location)	80.00	90.00
Board (Dormitory rate for women. Rates out in town vary somewhat)	198.00	216.00
Laundry (Dormitory rate for a definite amount for women. Local work higher)	18.00	25.00
Materials for Clothing Classes for Women (average)	20.00	
Laboratory Fees for Women (average)	25.00	
Shop and Laboratory Fees for Men (average)		30.00
Drawing instruments, overalls, small tools, etc.		27.50
Estimated Expenses for Residents	367.00	414.50
Tuition for Non-Residents	124.00	124.00
Estimated Expenses for Non-Residents	$491.00	$538.50

The fact that incidental expenses, amusements, traveling expenses, postage, clothing, personal supplies, etc., are not included in the above must be taken into consideration.

INCIDENTAL FEES

Special Examination Fee (taken in special cases only)	2.00
Fees for Transcripts (A student is entitled to one transcript of his credits.' Each additional copy is issued at the rate of	1.00
Locker Keys (Deposit $2.50—Refund)	.75
Manuals and Bulletins (average)	2.25

EICHELBERGER SCHOLARSHIPS

The Eichelberger Scholarships, four in number, of one hundred dollars each, given at Commencement time to two men and two women, are based upon scholarship, personality, future possibilities, social attitude and accomplishments, and value to the school. The scholarships are granted to students who have a certain high rank. The selection of the candidates is made at the annual Commencement period at the close of the regular session.

SELF-SUPPORT AND STUDENT AID

While there are opportunities for a limited number of students to earn a part of their expenses while pursuing courses, it should be borne in mind that the courses are designed to require the whole of a student's time and effort and that the amount of outside work the student will be able to do cannot be great. For this reason students whose funds are not sufficient to meet their expenses for at least the first year are not encouaraged to enter college. Expenses here are very low, but the amount of work available is comparatively small.

As far as possible students are employed for extra work about the library, laboratories, and in the cafeteria, and also as janitors. Some opportunities offer themselves outside of school activities. A great deal depends, of course, upon the ability and energy of the individual, and his willingness to do any kind of work. The best places are usually secured by those who have been in college for some time.

Stout does not undertake to secure places for any student in advance, or guarantee employment. It does however make special efforts thru its College Employment Bureau to locate students needing work as a means of paying expenses.

The school operates a Student Loan Fund and makes available to needy and deserving students aid within the limits of the fund. Loans are not made, however, to freshman students, and are made only to those students whose school record in scholarship and deportment recommend them to the Committee on Student Loans. Money from this fund is loaned at five per cent, and the loans are made returnable at the latest within one year after the student leaves school.

FEES FOR TRANSCRIPTS

Each student upon graduation may obtain a certified transcript of the standings earned while in attendance at The Stout Institute. Additional copies are furnished at a charge of one dollar per transcript.

THE INFIRMARY

The Stout Institute maintains an infirmary for the care of students, where every detail of health and sanitation is carefully supervised. A resident registered nurse supervises the

health of students throughout the college and is on duty at the infirmary. The nurse maintains regular office hours in her rooms in the Home Economics Building, where she is easily consulted by students.

A fee of two dollars and fifty cents per semester is charged to all students. This fee insures dispensary service and if necessary, ten days of hospital care. Students rooming in the dormitories will not be charged for meals while at the infirmary. All other students will be charged at the rate of one dollar per day.

FEE FOR SCHOOL ACTIVITIES

The Stout Institute offers a wide range for student activities in addition to the regular work of the school. Besides the regular classes in physical education for men and women, Stout is represented each year by strong football, basketball, baseball and track teams. Flourishing glee clubs, one for men and one for the women, have been maintained for a number of years. The Men's Glee Club frequently makes a short road trip in the spring. The dramatic work of the men and women is combined in the organization known as the Manual Arts Players. A permanent Lyceum committee is maintained, operating each school year a five or six number course of the very best talent available. The school paper, The Stoutonia, is published each Friday. The editorial, mechanical, and business management of this paper is handled by students. Numerous social affairs take place throughout the year in the school gymanisum. The school has had a strong band organization each year, membership in which is open to men and women.

All of these organizations through contests, concerts, plays, programs, contribute to the social life of the school. The management of admission, booking, and relationship with various student activities is through the Stout Student Association, the officers of which are elected each fall at a regular all-school election.

The membership charge, $10.00 per year, is payable by all students at the time of enrollment at the beginning of each semester, $5.00 the 1st semester and $5.00 the second. This

membership gives to every student of the college admission to all athletic events including football, basketball, and baseball, all concerts by student musical organizations including the Band, Men's Glee Club, and Girl's Glee Club, productions of the Manual Arts Players, all Lyceum entertainments under the supervision of the student association, educational and other lectures, all student dances given under the auspices of the student association, and the semester's subscription to the student weekly newspaper, The Stoutonia. The Stout Student Association membership has eliminated the necessity for the many former student drives for the financial support of the usual college activities. The only exceptions are the college annual, the Tower, and the religious organizations. The association has added much to the social atmosphere of the school and has systematized and made harmonious all school activities.

DORMITORIES

Bertha Tainter Hall accommodates about thirty young women. The Hall is furnished with all modern conveniences. The rooms are comfortably heated and properly lighted, and standing apart from any other buildings, as it does, occupants are assured of good ventilation.

Tainter Annex accommodates sixty-six young women, and is situated on the same grounds with Bertha Tainter Hall. It is thoroughly suited to the purpose for which it is planned. Each room is sub-divided, separating it into living and sleeping quarters. Each room accommodates two students.

Lynwood Hall accommodates sixty-three students. It was built for the purpose for which it is used and is, in every appointment, adequate and complete. Students living at Lynwood Hall will be required to take all meals at the Stout Cafeteria, one-half block distant. They will be required to purchase one $5.00 cafeteria coupon book each week. No exception will be made to this requirement.

The charge for a room for the school year of thirty-six weeks, for each student, is $80 to $90, according to size and location of the room. These prices apply to all three dormitories.

In Tainter Hall and Annex the charge for meals and definite amount of laundry work for each student is $6.00 per week.

All non-resident women are required to live in dormitories except Juniors and Seniors who are more than 25 years of age with whom it is optional.

Sheets and pillow cases will be furnished in all dormitories. Students must supply towels and blankets. Blankets will be furnished, however, during the summer session.

Room rent in dormitories is payable by semesters, in advance, at the beginning of each semester.

Board and laundry charges are payable four weeks in advance.

Rooms in dormitories will be available Monday, Sept. 8, 1930. Meals will be served beginning with dinner Monday noon, Sept. 8, 1930.

A DORMITORY FOR MEN

It is quite possible that beginning September, 1930, dormitory facilities for men will be provided. Certainly these accommodations will be provided not later than September 1931.

Information concerning dormitory arrangements will be furnished to all students registering for the current year. When these accommodations are ready Freshmen students will be required to live in the dormitory during their first year and rates and regulations will be the same as those here stipulated for students in Lynwood Hall.

LIVING EXPENSES OUTSIDE DORMITORIES

Accommodations for men and those women not living in dormitories may be secured in the city at varying rates depending upon locations and quality of service. Rooms may be had as low as $2.50 per week per person, and table board may be secured in private homes at $5.50 to $6.50.

STOUT CAFETERIA

The Stout Institute Cafteria, located in the east end of the basement of the Home Economics Building, was opened in the fall of 1921. It is for the use of the students and faculty and their guests. At present several hundred may be accom-

modated for three meals daily. The equipment is complete and modern; prices are moderate; the service is adequate; the food is excellent. The cafeteria proves a convenience and an economy to many students. Students are securing meals for the week at from $5.00 to $6.50. For the school year 1930-31, the cafeteria opens for dinner Monday noon, Sept. 8, 1930.

TEA ROOM

The Stout Tea Room, opened two years ago, is an attractive luncheon or tea room under the management of the director of the cafeteria. It provides simple a la carte service during the late afternoon hours and will prove an inviting place to rest over the tea cups or while enjoying an iced drink and a sandwich. Student and faculty parties are popular here.

REFUNDS

Students who are compelled to withdraw from the college by reason of illness, not due to poor physical condition or ill health existing before entering, are entitled to a refund of tuition from the date when notice of such withdrawal is received to the end of the semester.

Students boarding in the dormitories are also entitled to a refund of whatever amount has been advanced for board beyond the date when notice of withdrawal is received.

Refund for advance payment of room rent in the dormitories is allowed from the date when the room is again rented. Effort is made to secure an occupant at the earliest date possible.

As books and supplies for which fees are charged have to be bought in advance in quantities necessary to supply the entire enrollment, no refund of fees is made in any case.

CO-OPERATIVE WORK

An expanding program of opportunity for cooperative work for students in the School of Industrial Education is available. This work is of two types, teaching and shop experience. In the supervised teaching which all students must take in the professional group opportunity is offered at Stout Institute

for such teaching in grades 5 to 12 in the Menomonie Public Schools and in the day and evening classes of the Menomonie Vocational School. Through special arrangements teaching experience in certain other types of schools outside of Menomonie is available for a limited number of students each year. Through having these opportunities in addition to those on the campus all types of teaching positions open to Stout graduates are available for supervised teaching during the training program.

All students in the School of Industrial Education select certain major and minor lines of work in shop work and drawing. Opportunity for advanced students to spend some time in certain selected industries securing practical production experience is available. The scope of such shop experience and the kinds and types are being constantly expanded. During the school year of 1929-30 such work will be available for students majoring in printing, woodworking, and possibly in certain other lines. The purpose of such is to give the student modern shop experience in the industry in those phases of the work which are not completely represented on the campus.

THE DEMAND FOR GRADUATES

The demand for graduates of Stout Institute as teachers and administrators of Industrial Education and Home Economics is steadily increasing year by year. Graduates have taught or are teaching in every state of the union, with occasional exceptions, and in Canada and Porto Rico. There is an increasing demand for dietitians, lunchroom managers, institutional and social workers. While The Stout Institute never guarantees positions to students upon graduation, they do everything in their power to assist graduates to positions they are qualified to fill.

The number of schools in which Industrial Education and Home Economics are being taught is rapidly increasing and the demand for well-trained teachers of these subjects is greater than ever before.

The officers of the college are glad to recommend teachers to school officials who are seeking competent teachers or

directors of vocational schools, of manual training, Industrial Education, and Home Economics. In making recommendations reasonable caution is used to name candidates who by training, temperament, personality, and experience are adapted to the demands of the position to be filled. For the past few years The Stout Institute has been called upon to furnish more teachers than it has been able to supply or willing to recommend.

The authorities of The Stout Institute are making a special appeal to graduates of the two-year diploma course to return to this institution to complete the work, leading to the Bachelor of Science degree. The demand for degree graduates in all grades of schools is becoming more insistent. It is constantly becoming harder for teachers not having a degree to secure positions. The work now demanded in most schools requires the complete preparation.

REGULAR SESSION, ENROLLING

The school year opens September 9, 1930, the first semester closing January 23, 1931. The second semester opens January 26, 1931, and closes May 29, 1931. Students should arrange to enter at the beginning of the school year if possible. When this cannot be done, students may enter at the beginning of the second semester or at the beginning of the summer session.

All students contemplating attendance at The Stout Institute should, if possible, make plans to secure the degree.

Address all correspondence regarding courses of study or general work of The Stout Institute to the President.

GENERAL INFORMATION SUMMER SESSION 1930

The Twenty-Fifth Annual Summer Session of The Stout Institute opens June 16, 1930, and closes August 15, 1930. During the summer session which is a nine-week term, classes are held five days of the week, the week-ends affording opportunity to make use of the recreational facilities of Lake Menomin, Red Cedar River, and vicinity.

In subjects requiring daily recitation during the eighteen-week semester a half credit is secured in the summer except where two recitations per day make it possible to secure full credit. In subjects requiring two or three recitations per week during the eighteen week semester full credit is given during the summer session by increasing the number of periods per week. The regular session being thirty-six weeks in two semesters of eighteen weeks each makes possible the completion of units of work in the summer session which interlock with the regular session without program difficulties. The 1930 summer session while it is twenty-fifth in the total series will be the ninth on the nine-week basis. Present plans include a nine-week session in the summer of 1931.

The students who finished the two-year course and have seen fit to make use of summer sessions for the completion of the work for the degree have found the nine-week session very convenient. During the rapid trend toward degree requirements for vocational teaching positions the nine week session has assisted vocational teachers in keeping pace with the requirement. The dates of the nine-week session make possible enrollment without loss of time on the part of teachers in vocational schools where the school year runs late. The session closes early enough to allow a return for the earliest fall openings of the school year, thus avoiding some of the difficulties which have arisen where double summer sessions of six weeks each have been operated.

Summer session classes are designed to meet the needs of various groups of people. Former students and graduates of the diploma course have excellent opportunity for taking advanced work for credits towards the degree. Supervisors and

teachers of industrial education or home economics can strengthen their work in technique or in the field of education. All persons interested in special studies related of interest in the summer session schedule. The Stout Institute has been designated by the State Board of Vocational Education as the institution in Wisconsin to receive Federal aid under the Smith-Hughes Law for the preparation of teachers for vocational schools.

In all probability the operation of the longer summer session during the summers of 1930 and 1931 will be a sufficient period on the nine-week basis. The nine week session means operating the Stout Institute forty-five weeks out of the year. eliminating any opportunity for the faculty to carry on advanced study. It is probable that having maintained nine-week sessions for a ten-year period student need for summer session work will be adequately met in six week sessions. Students planning sequences of summer session attendance should plan on the probability of six week sessions beginning in the summer of 1932.

COURSES OF STUDY---1930-1931

SCHOOL OF INDUSTRIAL EDUCATION

Four-Year Course

Leading to the Bachelor of Science Degree in Industrial Education, teacher's professional diploma, and special state license.

FIRST YEAR

			Sem. Hrs.
English	102a-b	English Composition	6
Social Science	1	American Government	5
Education	12b	General Psychology	5
Industrial Education	(See list)	Shop, Drawing, Design	16
			32
Physical Education	127	Physical Education	2

SECOND YEAR

English	106	Public Speaking I	2
English	216	Survey of English Literature	2
Mathematics	207-211	Mathematics I-II	4
Education	222	Principles of Educational Procedure	3
Education	205	Methods of Teaching Industrial Arts	2
Education	203	Plans and Instructional Material	2
Physical Education	101	Hygiene	1
Industrial Education	(See list)	Shop, Drawing, Design	16
			32

The 16 hours of shop work and drawing in the first year consist of eight courses in the following:

Elements of Woodwork, I
General Woodwork I
Sheet Metal I
Electrical Work I
Freehand Drawing I
Machine Shop I
Printing I
Elements of Mechanical Drawing I

The shop work and drawing in the first year is required of all students except those entering with specific journeyman experience in trades. The freshman shop schedule is modified

for such men. The selection of shop and drawing work in the second, third, and fourth years is based upon the experience gained in the freshman courses and a detailed anaylsis of calls for teachers showing the locations and distributions of kinds of work called for and the usual combinations in demand.

Specific selections of shop work for the second year and tentative selections for the shop work for the third and fourth years are made at the close of the freshman year. Such selections are combinations made from the following:

Carpentry I, II, III, IV, V
Millwork I, II
Cabinetmaking I, II, III, IV
Home Mechanics I, II
Auto Mechanics I, II, III, IV
Woodfinishing I, II
Patternmaking I, II, III, IV
Architectural Drawing I, II III, IV
Furniture Upholstery I
Machine Drawing I, II, III, IV
Foundry I, II, III, IV
General Metal Work'ng I, II
Sheet Metal II, III, IV
Electrical II, III
Machine Shop II, III, IV
Printing II, III, IV, V, VI, VII
House Furnishing I, II
General Woodwork II, III

In the third and fourth years there are certain courses required of all students in the School of Industrial Education. These required groups in the third and fourth years are listed below. In addition to the subjects in the required list for the third and fourth years three lines of choice are open. A student with a special interest in the Social Sciences will in the third and fourth years take the subjects in the required list plus those in Social Science sequence. If the student's major interest is in the sciences he will select those listed in the Science Sequence. The third choice in academic work is listed under the General Subjects Elective Sequences. This third choice is made up of certain selections from the preceding two sequences.

THIRD YEAR

			Sem. Hrs.
English	346	Essay	2
English	302 or 439	Advanced Composition or Journalistic Writing	2
Education	357a-b	Adm'nistration and Organization of Industrial Education	4
Education	408	Student Teaching	4
Industrial Education	(See list)	Shop, Drawing, Design	8

FOURTH YEAR

			Sem. Hrs.
English	402 or 404	Novel or Poetry	2
Education	401	Vocational Guidance	2
Education	441	Educational Measurements	2
Education	304 or 405	The Part Time School and Its Problems or History of Education	2
Industrial Education	(See list)	Shop, Drawing, Design	4

In addition to the subjects listed in the required groups for the third and fourth years students electing the Social Science Sequence will take the fo lowing.

THIRD YEAR

			Sem. Hrs.
Social Science	201	Economics I, General	3
Social Science	303	Economics II, General	2
History	305	Modern	3
History	301	Economic History of U. S. (Ind'l)	3
Social Science	307	Social Psychology	2

FOURTH YEAR

			Sem. Hrs.
History	409	Recent United States	3
Social Science	309	Princ ples of Sociology	3
Social Science	411	Social Problems	3
Social Science	413	History of Labor Movements	2
Social Science	415	Labor Problems	3
		Electives	5
Social Science	419	Educational Sociology	3
Social Science	417	American Politics	3
English	223	Public Speaking II	2
English	402	Novel	2
English	404	Poetry	2
Education	350	Child Psychology	2

In addition to the subjects listed in the required groups in the third and fourth years, students selecting the Science Sequence will take the following:

THIRD YEAR

			Sem. Hrs.
Mathematics	313	Mathematics III	3
Biology	122	Biology, General	3
Chem'stry	110	Chemistry I, Inorganic	3
Chemistry	120	Chemistry II, Inorganic	3

FOURTH YEAR

			Sem. Hrs.
Chemistry	445	Chem'stry III	3
Chemistry	208	Chem'stry, Organic	3
Physics	421	Physics I	5
Physics	423	Physics II	3
Physics	425	Physics III, Strength of Materials	3

Physiology	214	Physiology and Hygiene or	
Bacteriology	206	Bacteriology	3

In addition to the subjects listed in the required groups for the third and fourth years, students selecting the General Subjects Elective Sequence will take the following.

THIRD YEAR

			Sem. Hrs.
Chemistry	110	Chemistry I, Inorganic	3
Chemistry	120	Chemistry II, Inorganic	3
Social Science	201	Economics I, General	3
Social Science	303	Economics II, General	2
History	301	Economic History of U. S.	3

FOURTH YEAR

			Sem. Hrs.
Physics	421	Physics I	5
Physics	423 and 425	Physics II and III or	
Chemistry	445 and 208	Chemistry III and Organic	6
		Electives	7
English	223	Public Speaking II	2
English	402	Novel	2
English	404	Poetry	2
History	409	Recent United States	3
Social Science	309	Principles of Sociology	3
Social Science	419	Educational Sociology	3
Social Science	417	American Politics	3
Social Science	413	History of Labor Movements	2
Social Science	307	Social Psychology	2
Education	350	Child Psychology	2

A special schedule is provided for journeymen desiring teacher training in preparation for entering teaching in vocational schools. The schedule, designated as the vocational special, is open only to journeymen. Students who are journeymen and also high school graduates may take the work included in the schedule and additional work leading to the Bachelor of Science Degree if they so desire. The arrangement of the schedules for the first two years for the vocational special classification follows:

Schedules for Students Selecting the Vocational Special Classification

FIRST YEAR

			Sem. Hrs.
Industrial Education	(See lists)	Shop, Drawing, Design	8
English	102a-b	English Composition	6
English	106	Public Speaking	2

Social Science	1	American Government	5
History	301	Economic History (Ind'l)	3
Education	357b	Organization of Industrial Education	2
Education	125	General Psychology	5
Education	304	The Part Time School and Its Problems	2
Physical Education	101	Hygiene	1

SECOND YEAR

			Sem. Hrs.
Industrial Education	(See list)	Shop, Drawing, Design	12
Social Science	413	Labor Movements	2
Social Science	415	Labor Problems	3
Social Science	307	Social Psychology	2
Social Science	201	Economics I	3
Social Science	303	Economics II	2
Education	408	Student Teaching	2
Education	407	The Teaching of Shop Subjects in the Part Time School	2
Education	443	Problems in the Teaching of Shop Subjects in the P. T. School	2
Education	401	Vocational Guidance	2
Physical Education	127	Physical Education	1

This schedule of work outlined for the Vocational Special student is closely articulated with the certification requirements of the Wisconsin State Board of Vocational Education. These requirements are as follows:

For the purpose of measuring the attainment and the progress of the Part-Time Schools of the State, the Wisconsin State Board of Vocational Education, with the aid of the directors, has set up certain standards of preparation for each phase of part-time school teaching, and is classifying part-time school teachers on the basis of these standards.

Teachers of Shop Subjects are classified as follows:

Junior Teachers

The Junior classification is granted to and held by:—

1. All teachers employed in the part-time schools of Wisconsin prior to January 1, 1926, who have not qualified for a higher classification as long as they spent one summer out of every three, or the equivalent in professional improvement along the lines laid down for securing the Senior A classification and approved by the Local Board of Industrial Education and the State Board of Vocational Education. At least six credits must be earned over each three year period. The following courses must be taken first:—

1. The Part-Time School and Its Problems.....2 credits
2. The Teaching of Shop Subjects.....2 credits

2. All teachers employed in the part-time schools of Wisconsin on or after January 1, 1926 who:—

(a) Are not yet qualified to hold a higher classification.

(b) Have had successful experience in the vocation taught for at least three years beyond the completion of apprenticeship; or the equivalent.

(c) Have agreed to and do improve themselves according to the program outlined for securing Senior A classification, spending at least every alternate summer; or the equivalent, in training approved by the Local Board of Industrial Education and the State Board of Vocational Education. At least six credits must be earned over each two year periods. The following courses must be taken first:

1. The Part-Time School and Its Problems.....2 credits
2. The Teaching of Shop Subjects in the Part-Time School ..... 2 credits

Senior B Teachers

The Senior B classification is granted to every teacher of shop subjects who was employed in the part-time schools of Wisconsin prior to January 1, 1926, and who has not yet qualified for the Senior A classification, whenever he shall have furfilled the following conditions::—

1. Completion of five years of successful teaching in the part-time schools of Wisconsin in the shop subject for which Senior B classification is asked.

2. Completion of one summer term's work, or the equivalent. At least six credits must be earned in courses approved by the Local Board of Industrial Education and the State Board of Vocational Education. The following courses must be taken first:—

1. The Part-Time School and Its Problems.....2 credits
2. The Teaching of Shop Subjects in the Part-time School .....2 credits

The Senior B classification will be extended as long as the possessor teaches successfully and spends one summer out of every three in professional improvement along the lines laid down for securing Senior A classification. At least six credits must be earned over each three year period.

Senior A Teachers

The Senior A classification is granted to every teacher of a shop subject who has fulfilled the following conditions:—

1. Successful experiences in the vocation taught for at least three (3) years beyond the completion of apprenticeship; or the equivalent.

2. Successful teaching experience of not less than three (3) years in the part-time schools. One of these three years must have been in Wisconsin.

3. Completion of two (2) years of training in an approved technical or general institution of college rank; or the equivalent.

Note: Time spent by person without practical experience in a trade or technical school learning elementary processes, if counted in on the apprenticeship period mentioned above, cannot be counted here. This two years of school training is to be in addition to the learning of the elementary trade or industrial processes.

4. Completion of the following courses, which may be included in the two years of college training required under (3) above; or the equivalent.

The Part-Time School and Its Problems.....2 credits
The Teaching of Shop Subjects in the Part-Time School .....2 credits
Psychology .....2 credits
Vocational Guidance .....2 credits
Problems in the Teaching of Shop Subjects in the Part-Time School .....2 credits
Elementary Economics .....4 credits

Four additional credits in Economics chosen from the following or similar courses:

Labor Problems
Labor Legislation
Employment Management
The Labor Market
Industrial and Business Organization and Administration
Sociology
— 4 Credits

SCHOOL OF HOME ECONOMICS

Four-Year Course

Leading to the Bachelor of Science Degree in Home Economics

——Required Subjects——

FIRST YEAR

			Sem. Hrs.
English	102a-b	English Composition	6
English	106	Public Speaking	2
Biology	122	Biology	3
Chemistry	110 and 120	Inorganic Chemistry	6
Physiology	214	Physiology	3
Home Economics	100	Textiles	3
Home Economics	104	Clothing Construction	3
Home Economics	116	Orientation	1
Home Economics	202	Survey of Modern Home	2
Related Art	114	Color and Design	3
Physical Education	128	Physical Education I	0
			32

SECOND YEAR

Bacteriology	206	Bacteriology	3
Chemistry	208	Organic Chemistry	3
Education	124	Psychology I	3
Education	204	Psychology II	2
English	216	Survey of English Literature	2
History	305	Modern History	3
Social Science	201	General Economics	3
Home Economics	112	Food Preparation	3
Home Economics	210	Food Marketing	3
Home Economics	212	Nutrition I	3
Home Economics	218	Dressmaking	3
Related Art	220	Costume Selection	2
Physical Education	228	Physical Education II	0
			33

Notes: 1. Students upon completion of the work of the second year must select one group of subjects under group A and complete this group during the Junior and Senior years in addition to the prescribed courses listed.

2. Students desiring certification in Wisconsin for the teaching of Vocational Home Economics, or General Science must meet the requirements listed for such certification under Group B.

THIRD YEAR

Education	222	Principles of Educational Procedure	3
Education	304	Part-Time School	2
Education	320	Home Economics Education I	3
English	302	Advanced Composition	2
Home Economics	318	Physical Development and Welfare of Children	2
Related Art	334	House Furnishing I	3
Home Economics	346	Child Development I	2
Home Economics	348	Child Development II	3
Home Economics	306	Child Nutrition	3
Home Economics	326	Problems of The Family	2

Choices from groups A, B and C to complete 32 semester hours.

FOURTH YEAR

Education	408	Student Teaching	4
Education	410	Home Economics Education II	2
English	402	Novel	2
	or		
English	404	Poetry	2
Home Economics	330	Home Administration	3
Home Economics	422	Home Management House	3

Choices from groups A, B, and C, to complete 32 semester hours.

GROUP A

1. Foods

Bacteriology	420	Food Bacteriology	3
Chemistry	322	Physiological	3
Home Economics	310	Nutrition II	3
Home Economics	308	Meal Planning	3
or			
Home Economics	300	Applied Institutional Management	3
or			
Home Economics	438	Experimental Cookery	3

2. Institutional—Hospital

Bacteriology	420	Food Bacteriology	3
Chemistry	322	Physiological Chemistry	3
Home Ecnomics	310	Nutrition II	3
Home Ecnomics	418	Nutrition III	3

2. Institutional—Commercial

Bacteriology	420	Food Bacteriology	3
Home Ecnomics	328	Institutional Administration	3
Home Economics	440	Institutional Problems	3
Home Economics	300	Applied Institutional Management	3

4.

3. Clothing

Related Art	332	Advanced Design	3
Home Economics	31-	Applied Dress Design	3
Home Economics	316	Clothing Economics	3
Home Economics	336	Clothing Problems	3

4. Home Economics Education

Education	344	Social Education	2
Home Economics	300	Applied Institutional Management	3
Home Economics	312	Applied Dress Design	3
or			
Home Economics	336	Clothing Problems	3
Any advanced course in Foods or Nutrition			3

5. Related Art

Related Art	332	Advanced Design	3
Related Art	426	Seminar in Related Art	3
Related Art	432	House Furnishing II	
or			
Related Art	434	House Furnishing III	3
or			
Related Art	436	Costume Design	3
Related Art	430	Art History and Appreciation	3

GROUP B

1. Vocational Education

Education	412	Analysis and Organization of Home Economics in P. T. School	2
Education	414	Methods of Teaching Home Economics in P. T. School	2

2. Science

Completion of the course in Physics I in addition to the required courses in science.

General Electives

GROUP C

Education	344	Social Education	2
Education	350	Child Psychology	2
Education	401	Vocational Guidance	2
Education	405	History of Education	2
Education	428	Administration and Supervision of Home Economics	3
Education	438	Seminar in Home Economics Education	3
Education	441	Educational Measurements	2
Social Science	1	American Government	5
Social Science	411	Social Problems	3
Social Science	309	Sociology	3
Social Science	419	Educational Sociology	3
Social Science	413	Labor Movements	2
Social Science	415	Labor Problems	3
Social Science	417	American Politics	3
English	346	Essay	2

English	223	Public Speaking II	2
English	402	Novel	2
English	404	Poetry	2
English	439	Journalistic Writing	2
Bacteriology	420	Food Bacteriology	3
Chemistry	324	Textile Chemistry	3
History	301	Economic History U. S.	3
History	409	Recent History U. S.	3
Hygiene	338	Community Hygiene	3
Home Economics	308	Meal Planning	3
Home Economics	416	Readings in Foods	1
Home Economics	400	Food Demonstrations	3
Home Economicsc	300	Applied Institutional Management	3
Home Economics	310	Nutrition III	3
Home Economics	418	Nutrition II	3
Home Economics	312	Applied Dress Design	3
Home Economics	314	Children's Clothing	3
Related Art	332	Advanced Design	3
Related Art	430	Art History and Appreciation	3
Related Art	432	House Furnishing II	3
Related Art	434	House Furnishing III	3
Related Art	436	Costume Design	3

Classification of Teachers of Home Economics in Part-Time Schools of Wisconsin

For the purpose of measuring the attainment and the progress of the Part-time Schools of the state, the Wisconsin State Board of Vocational Education, with the aid of the directors, has set up certain standards of preparation for each phase of part-time school teaching, and is classifying part-time school teachers on the basis of these standards.

Teachers of Home Economics are classified as follows:

Junior Teachers

The Junior classificaton is granted to and held by:

1. All teachers employed in the Part-time Schools of Wisconsin prior to January 1, 1926, who have not qualified for higher classification, as long as they spend one summer out of every three; or the equivalent, in professional improvement along the lines laid down for securing the Senior A classification, and approved by the Local Board of Industrial Education and the State Board of Vocational Education. At least six credits must be earned over each three year period. The following courses must be taken first.

1. The Part-Time School and Its Problems 2 credits
2. The Methods of Teaching Home Economics in the Part-Time School .....2 credits

3. The Analysis and Organization of Home Economics in the Part-Time School.....2 credits

2. All teachers employed in the Part-time Schools of Wisconsin on or after January 1, 1926, who:—

(a) Are not yet qualified to hold a higher classification.

(b) Have had practical experience in homemaking of at least one year; or the equivalent.

(c) Have completed a two-year home economics course at an approved teacher training institution; or the equivalent.

(d) Have agreed to and do improve themselves according to the program outlined for securing Senior A classification, spending at least every alternate summer, or the equivalent, in training approved by the Local Board of Industrial Education and the State Board of Vocational Education.

At least six credits must be earned over each two year period. The following courses must be taken first:

1. The Part-Time School and Its Problems.....2 credits
2. The Analysis and Organization of Home Economics in the Part-Time School.....2 credits
3. The Methods of Teaching Home Economics in the Part-Time School.....2 credits

Senior B Teachers

The Senior B classification is granted to every teacher of Home Economics who was employed in the part-time schools of Wisconsin prior to January 1, 1926, and who has not yet qualified for the Senior A classification, whenever she shall have fulfilled the following conditions:—

1. Completion of five years of successful home economics teaching experience in the part-time schools of Wisconsin.

2. Completion of one summer term's work or the equivalent. At least six credits must be earned in courses approved by the local Board of Industrial Education and the State Board of Vocational Education. The following courses must be taken first:—

1. The Part-Time School and Its Problems.....2 credits
2. The Analysis and Organization of Home Economics in the Part-Time School.....2 credits
3. The Methods of Teaching Home Economics in the Part-Time School .....2 credits

The Senior B classification will be extended as long as the possessor teaches successfully and spends at least one out of every three summers in professional improvement along the lines laid down for securing the Senior A classification. At least six credits must be earned over each three year period.

Senior A Teachers

The Senior A classification is granted to every teacher of home economics who has fulfilled the following conditions:—

1. Has taught home economics successfully for not less than three years in the part-time schools. One of these three years must have been in Wisconsin.

2. Has had practical homemaking experience of at least one year; or the equivalent.

3. Has had practical experience for at least one summer in employment other than teaching or homemaking; or the equivalent.

4. Completion of an approved four-year course in a teacher training institution; or the equivalent. This course may be a home economics course throughout the whole four years; for example, it may be the four year Home Economics course at The Stout Institute. It might be a two-year course in Home Economics at The Stevens Point State Teachers College or elsewhere, followed by two years more at The Stout Institute, or at the University of Wisconsin or other approved institutions of equal standing. The last two years might be a technical course leading to the degree of B. S., or it might be a general course leading to the degree of Ph. B., or a course leading to the degree of Ph. B. in education. But at least two years of the four-year course must be chiefly home economics.

5. Has completed the following courses provided by the State Board of Vocational Education for teachers of Home Economics in the part-time schools which may be included in the four years of training required under (4) above; or the equivalent.

The Part-Time School and Its Problems.....2 credits
Analysis and Organization of Home Economics in the Part-Time School.....2 credits
Methods of Teaching Home Economics in the Part-Time School.....2 credits

*Problems in the Teaching of Home Economics in the Part-Time School	2 credits
Child Psychology	2 credits
Elementary Economics	4 credits
Electives	4 credits

Note: Among the general courses from which Electives are to be chosen are the following:

Labor Problems
Labor Legislation
Employment Management
The Labor Market
The Family
Elementary Sociology
Humanics
Vocational Guidance

Unclassified Teachers

Teachers who have not the qualifications for any of the classes above described, shall be designated as Unclassified.

*Prerequisites for this course for teachers having Junior Classification are three years of teaching experience in the part-time homemaking classes of the Wisconsin Vocational Schools and graduation from an approved four (4) year college course in home economics.

OUTLINE OF COURSES

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EDUCATION

Education 124 General Psychology (For Students of Home Economics)

Prerequisite or Parallel Course: Physiology 214.
Physiological basis for mental activity; mental reactions in behavior; laws controlling mental reactions; habit formation; the emotions—their nature and effect on life and conduct; changes in interests and attitudes in the adolescent period.
Sem. I. Credit: 3 Sem. Hrs.
Lecture 3 Hrs.

Education 125 General Psychology (For Students of Industrial Education)

Mental processes treated mainly as varieties of reactions and types of learning. Emphasis on function of the body mechanisms, man's equipment of unlearned activities and capacities, general laws of learning and their application, individual differences, their signficance, and the devices by which they are measured, application of psychological principles in teaching and learning situations.
Sem. I, II, S. S. Credit: 5 Sem. Hrs.
Lecture 5 Hrs.

Education 204 Psychology II

Prerequisite: Education 124.
Learning process; how new types of behavior are learned; the laws of presentation and association; the influence of mental attitudes; thinking and teaching others to think; measure of one's learning ability.
Sem. II. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.

Education 350 Child Psychology

Prerequisite: Education 125 or 204.
Heredity and environment; problems of developing capacity; inheritance and personality traits; changes of personality traits during different periods of development; influence of environment; influence of self-criticism for self-control.
Sem. I, II. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Education 222 Principles of Educational Procedure

Prerequisites: Education 124 and 204, or 125.

General introduction to present practice in secondary education. Evolution of curricular practices; organization of secondary schools with emphasis on the junior high school; teacher participation in a comprehensive educational and vocational guidance program; need and uses of informal and standardized objective tests with the interpretation of the results; methods, techniques and procedures employed in efficient instruction.

Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture 3 Hrs.

Education 203 Plans for Instructional Material

Prerequisites: Education 125 and 222

Factors underlying the appropriate selection and preparation of instructional material in the industrial arts field, with the development of plans for effective presentation. Selected types of work prepared in a series of consecutive units for typical teaching situations. Unit analysis, preparation of instruction sheets, teaching plans.

Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 1 Hr.

Education 320 Home Economics Education I

The application of the general principles of education to Home Economics teaching. Pupils in classes,—their equipment, interests, and needs in homemaking. Objectives of Home Economics education; the content of the curriculum; the organization of teaching units; the methods of classroom teaching, and the supervision of home projects. Laboratory management; teaching aids; measuring the results of instruction. Observation in Home Economics classes.

Sem. I, II Credit: 3 Sem. Hrs.
Lecture 3 Hrs

Education 205 Methods in Teaching Industrial Arts

Prerequisite: Education 125

Observation of classes at work; preparation and presentation of lessons to the college class; meaning of education; teaching as a process; laws of learning; types of lessons; class and shop management; elements and conditions of easy control of pupils; punishments; personality of the teacher.

Sem. I, II Credit: 2 Sem. Hrs.
Lecture 2 Hrs.

Education 408 Student Teaching

Prerequisites: Education 320 for Home Economics students.

Education 205 and 203 for Industrial Arts students. Observation and teaching of Home Economics and Industrial Education teaching in different grades of the public schools. Relation of class personnel to methods of teaching employed. Preparation, use, and evaluation of courses of study, plans, teaching aids, and tests. Some experience in home practice and home projects. Responsibility for the social and financial organization of the group. Individual and group conferences.

Sem. I, II Credit: 4 Sem. Hrs.

Education 304 The Part-Time School and Its Problems

A general acquaintance course in the history, theory, purpose, organization, and administration of the part-time school. The following points are considered: history and development of the part-time school both in Europe and America with special attention given to Wisconsin; Federal and State laws affecting the part-time schools; the type of pupils in the part-time schools and their needs; desirable characteristics of the part-time school teacher; the work of the coordinator; home contacts; health problems; cooperation with outside organizations; cooperation with the Industrial Commission and Rehabilitation Division; the planning and care of equipment.

Sem. I, II, S. S. Credit: 2 Sem Hrs.
Lecture, 2 Hrs.

Education 412 Analysis and Organization of Home Economics in the Part-Time School. (Smith-Hughes)

Prerequisite: Education 304

A survey of homemaking charts; a study of the needs of the part-time school girl; an analysis of one homemaking subject; selection and organization of content of short unit course of nine lessons accompanied by teacher's plans and pupil instruction sheets; suggestive methods for their use for a real situation -in a Part-Time School.

Sem. I, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Education 414 Methods of Teaching Home Economics in the Part-Time School (Smith-Hughes)

Building a homemaking curriculum; study and formula-

tion of objectives; suitable methods of teaching such as problem-solving; directed study; group and individual instruction; home-projects; and their adaptation to part-time school situations; measuring results of teaching; comparative study and critical evaluation of text and reference material.

Sem. I, S. S. Credit: 2 Sem. Hrs. Lecture, 2 Hrs.

Education 407 The Teaching of Shop Subjects in the Part-Time School

Recognized principles of teaching applied to typical shop situations as found in the part-time school. Methods of teaching based upon the psychological aspects of learning as applied to both shop and related subjects. Topics considered are (1) the use of the lesson plan and job sheet; (2) the demonstration, both for the whole class and for the smaller group; (3) individual practice, the follow-up on the demonstration; (4) assignment of reading and observation; (5) the notebook and note taking; (6) the lecture or class talk; (7) reports by pupils; (8) questioning; (9) checking and testing, examinations; (10) the use of models, charts, graphs and diagrams; (11) the use of pictures of various kinds; (12) shop hygiene and safety; (13) management, routine, detail, and discipline, (14) tool room procedure; (15) the maintenance of tools, apparatus and equipment; and (16) the selection, care and purchase of supplies.

Sem. I, II, S. S. Credit: 2 Sem Hrs. Lecture, 2 Hrs.

Education 443 Problems in Teaching Shop Subjects in the Part-Time School.

Prerequisite: For Junior teachers (Wisconsin State Board of Vocational Education) three years of teaching experience in the part-time shop classes of the Wisconsin Vocational Schools and the completion of two (2) years of training in an approved institution of college rank. Education 357B.

Individual work representing approved practice in the writing of text material that can be of immediate use in part time classes. The writing of specific instruction sheets and the preparation of test material suitable for use in part-time classes.

Sem. I, II, S. S. Credit: 2 Sem. Hrs. Lecture, 2 Hrs

Education 441 Educational Measurements

Prerequisites: Education 203 and 222 or Education 320

Improvement of the written examination with reference to validity, reliability and objectivity. The course including the present status, types of tests and their uses, the selection, use and interpretation of the results of standardized tests, methods of validating, establishing the reliability and securing objectivity, conversion of raw scores and the distribution for the determination of grades, construction of informal objective tests for particular situations.

S. S. Credit: 2 semester Hrs. Lecture 2 Hrs.

Education 401 Vocational and Educational Guidance

The rise and development of the movement, with some attention to foreign progress; study of surveys and their application to the problem; analysis and evaluation of the use of intelligence and trade tests; a careful consideration of personnel functions and administration, education, in business and industry; and preparation and classification of occupational information for use in guidance and placement. Assigned reading, lectures and preparation of term papers.

Sem. I, II, S. S. Credit: 2 Sem. Hrs. Lecture, 2 Hrs.

Education 344 Social Education

Prerequisite: Education 320 and Home Economics 342.

Study of social situations in school and community which offer greatest opportunity for training in the making of desirable and wholesome adjustments. Suggestions as to procedures in the development of certain ideals and attitudes in the adolescent students. Particular attention paid to possibilities of moral training and character building by means of curricular activities.

Sem. II, S. S. Credit: 2 Sem. Hrs. Lecture, 2 Hrs.

Education 357 Administration and Organization of Industrial Education

Prerequisites: Education 222, 203, 125

Definition of teacher's professional skill in analysis, selection and teaching on the lesson level, subject level, and curriculum level with solutions of typical problems.

Occupational and professional analyses. Present administrative practice analyzed and procedure plans worked out in the following: Functional assignment of operating responsibility; measurement of teaching and supervisory staffs; maintaining and developing the teacher's professional skill; functioning of the school system through continuous survey; the school budget and financial control; maintaining and controlling of buildings and equipment.
Sem. 1, II, S. S. Credit: 4 Sem. Hrs.
Lecture, 4 Hrs.

Education 410 Home Economics Education II
Prerequisite: Education 320
Development of Home Economics Education. Present placement in all day school curricula; administrative problems of department. Maintenance of and further professional development of the Home Economics teacher.
Sem II Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Education 438 Seminar in Home Economics Education
Prerequisite: Junior or Senior ranking.
Short units of three weeks duration. Content of units selected from the most significant present day problems in Home Economics. Details of current units found in the summer session bulletin.
S. S. Credit: 1 Sem. Hr. per unit

Education 428 Supervision and Administration of Home Economics Education
Prerequisite: Teaching experience
The organization of the field of supervision; the principles underlying good leadership; the training and qualities valuable in a supervisor. The development of a program of curriculum building and class room teaching and testing. The business administration of a department. The supervisor's relations with school executives, teachers, and community.
Sem. II, S. S. Credit: 3 Sem. Hrs.

Education 440 Teaching of Related Science
Prerequisite: Courses in two sciences, physics, chemistry, or biology.
Selection of suitable demonstratable scientific facts, the teaching of which may accompany the teaching of Home Economics; adapting experiments to the comprehension of grade and high school pupils.
Sem. II, S. S. Credit: 2 or 3 Sem. Hrs.
Lecture, 2 Hrs.; Conference, 1 Hr.

Education 405 History of Education
Background of present day education. Elementary, secondary and college education in the United States from the early colonial period to the present time. Purposes, curriculum; teachers; equipment; support; administration and supervision; methods; legislation developed for each type of school.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

SOCIAL SCIENCE

Social Science 1 American Government
Prerequisite: History 103
Critical review of the machinery and functions of national, state, and local governments. Emphasis on proposed reforms of governmental machinery, and teacher's relationship, especially with municipal administration, an analysis of the signficance of citizenship.
Sem. I, II Credit: 5 Sem. Hrs.
Lecture, 3 Hrs.

Social Science 201 Economics I
Prerequisites: History 301
Fundamental principles of economic science; their application to the life of the indvidual in the modern economic and social order.
Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 3 Hrs.

Social Science 303 Economics II
Prerequisite: History 301; Social Science I 201
Continuation of Economics I, including the study of a selected group of modern economic problems.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Social Science 307 Social Psychology
Prerequisites: Education 124 or 125
Group conditioned behavior, social imitation, social attitudes, the mind of the crowd, fads, fashions, crazes,

conventionalities, customs, traditions, compromise, sublimation, rationalization, and social control.
Sem. I, II — Credit: 2 Sem. Hrs. Lecture, 2 Hrs.

Social Science 411 Social Problems
Prerequisite: Social Science 309 or 419
Modern social problems selected from the following group: Population, Immigration, Poverty, and Dependency, Marriage and the Family, The Race Problem, Problems of Adjustment and Social Control, Conflict and Compromise, Abnormality and Crime.
Sem. II — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

Social Science 413 History of Labor Movements
Prerequisite: Social Science 201, History 301.
Historical background of modern labor movements. Origin and rise of the wage-working class; development of craft and class consciousness since the beginning of the Industrial Revolution; efforts of American laborers to improve their condition.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs. Lecture, 2 Hrs.

Social Science 415 Labor Problems
Prerequisites: Social Science 201, 413. History 301.
Problems and grievences of labor in modern industry, the divergent interests and view-points of employers, employees, and the public, and labor reforms and remedies.
Sem. I, II, S. S. — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

Social Science 417 American Politics
Prerequisite: History 103, Social Science 105.
Analysis of modern political parties, nominating methods campaigns, elections, practical politics in legislative bodies, machines and bosses, and other divisions of present day American politics; reforms and remedies for existing political malpractice are critically examined.
Sem. I, II, S. S. — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

Social Science 309 Principles of Sociology
Prerequisite: Social Science 307

Fundamental principles and elements of Sociology, designed to give the student a comprehension of social forces, social processes, and social structures in modern life.
Sem. I, II, S. S. — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

Social Science 419 Educational Sociology
Prerequisite: Principles of Sociology
Function of education in society. Agencies that educate. Socialization. Control of social facts, principles, and laws so as to serve human purposes. Maladjustments and remedies. Scientific methods for isolating objectives in social education. Responsibility of the schools for social progress.
Sem. I, II, S. S. — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

History 409 Recent History of the U. S.
Prerequisites: History 103, History 305, Social Science 105.
Survey of the principal events and movements since the Civil War reconstruction period, designed to furnish a background for the interpretation of contemporary events. Present day national and internatioal problems. Student topics, class discussions, research, summaries, and intelligent reading of periodicals.
Sem: I, II, S. S. — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

History 301 Economic History of the United States
Economic history of the United States since the Civil War; economic aspects of national development; early foundations of modern industry.
Sem. I, II, S. S. — Credit: 3 Sem. Hrs. Lecture, 3 Hrs.

History 305 Modern History
Significant events and movements in world history since 1815 with emphasis upon the historical background of contemporary life. Approximately half the course devoted to a consideration of the roots of the World War and the evolution of the distinctly contemporary states and governments.
Sem. I, II, S. S. — Credits: 3 Sem. Hrs. Lecture, 3 Hrs.

SCIENCE AND MATHEMATICS

Mathematics 207 Math. I Algebra

A review of the fundamental processes together with selected work in advanced algebra.

Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.

Mathematics 211 Math II Algebra and Trigonmetry

Continuation of Mathematics I including special work in logarithums. Introduction to the elements of trigonometry including the solution of the right triangle.

Prerequisite: Mathematics 207

Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.

Mathematics 313 Math III Trigonometry

Prerequisite: Mathematics 207 and 211

Continuation of the trigonometry introduced in Mathematics II. Complete unit in plane trigonometry. Shall rule calculation using the trigonometric functions. Variations of the trigonometric functions, fundamental relations, functions of the sum and difference of angles, and the solution of oblique triangles.

Sem. I, II Credit: 3 Sem. Hrs.
Lecture, 3 Sem. Hrs.

Biology 122 General Biology

Properties of protoplasm, classification of plants and animals, structure and nutrition of forms of plant life, the cell in development and inheritance, reproduction, introductory studies in embryology and comparative anatomy, the use of the microscope.

Sem. I, S. S. Credit 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Bacteriology 206 General Bacteriology

Prerequisite: Biology 122.

Some of the morphological and physiological characteristics of yeasts, molds, and bacteria, methods used in the culture and microscopic examination of microorganisms; effects of environment; introductory studies in comparative analysis of air, water, and milk; efficiency of insects as carriers of micoorganisms.

Sem. II Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

THE GYMNASIUM—NATATORIUM BUILDING INCLUDES ALSO STUDENT CLUB ROOMS AND BOWLING ALLEYS

PORTION OF READING ROOM IN MAIN LIBRARY

Bacteriology 338 Community Hygiene
Prerequisite: Bacteriology 206
Problems concerning conservation and promotion of community health; pure water supplies; sewage disposal; control of infectious diseases, health organizations, child welfare movements, industrial hygiene health exhibits.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Bacteriology 420 Food Bacteriology
Prerequisite: Bacteriology 206
Methods of isolation of organisms; morphological and cultural characteristics; methods of food preservation: symbiotic relations; thermal death points; quantitative and qualitative studies; interpretation of data.
Sem. I, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Physiology 214 General Physiology
Prerequisite: Biology 122.
Positions of the various organs of the body and their functions; dissection and histological studies.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Hygiene 101 General and Shop
Hazards as related to the school and shop; safety as practiced in industry; safety procedure in schools. Problems surrounding the health of the student and teacher. First aid discussion and practice.
Sem. I, II, S. S. Credit: 1 Sem. Hr.
Lecture, 1 Hr.

Chemistry 110 Inorganic Chemistry I
Chemical viewpoint, vocabulary, chemical reaction, oxygen, hydrogen, gas laws and their application, water atomic and molecular weights, equations, solutions, hydrogen chloride and hydrochloric acid, chlorine sodium, sodium hydroxide, salts, halogens, valence, ionization, sulfur and sulfur acids.
Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Chemistry 120 Inorganic Chemistry II
Prerequisite: Chemistry 110
Periodic system, atomic structure, nitrogen and the at-

mospnere, ammonia, nitric acid, phosphorus and other members of the family, carbon and its oxides, silicon and glass, boric acid and borax, sodium and potassium compounds, calcium, and its compounds, magnesium, zinc, aluminum, iron, nickel, cobalt, lead, tin, copper, mercury, silver, gold, platinum, manganese, chromium,—simple qualitative analysis of groups of metals followed by acid radicals.

Sem. II, S. S. Credit: 3 Sem. Hrs.

Chemistry 208 Organic Chemistry

Prerequisite: Chemistry 120

Influence of structure, on chemical behavior; the hydrocarbons, alchols, ethers, aldehydes, ketones, acids and esters, carbohydrates, and proteins.

Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Chemistry 322 Physiological Chemistry

Prerequisite: Chemistry 208; Physiology 214.

Cell constituents. Composition of various tissues, chemistry of salivary, gastric and pancreatic digestion. Intermediate and end-products of metabolism.

Sem. II Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Chemistry 324 Textile Chemistry

Prerequisite: Textiles 100, Chemistry 208

Chemical and physical properties of fibers; silk, wool, cotton, rayon, linen; bleaching of textiles, cleaning of raw fabrics, theory of dyeing, dyeing, removal of stains, development of technique and appreciation for good textiles and the care of them.

Sem. I Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab. 4 Hrs.

Chemistry 438 Quantitative Analysis

Prerequisite: Chemistry 120

Use of analytical balance, preparation of standard solutions both gravimetrically and volumetrically, typical food analyses for women and inorganic determinations for men. Emphasis of technique and accuracy, final application of theory learned in beginning courses.

Semesters Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Chemistry 445 Chemistry of Materials

Prerequisite: Chemistry 208

Water and its relation to boiler use, fuels—solid, liquid, gaseous, —lubricants, rubber, paints, varnishes, stains, building materials—cement, tile, brick, stones—ferrous and non-ferrous alloys.

Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 2 Hrs.

Physics 421 Physics I

Practical application of general physical laws in special laboratory problems, or demonstrated by apparatus or machines in actual use. Content applicable to the needs of prospective teachers in Industrial Education, Home Economics or the Sciences.

Sem. I, II, S. S. Credit: 5 Sem. Hrs.
Lecture, 3 Hrs.; Lab., 4 Hrs.

Physics 423 Physics II

Prerequisite: Physics 421

Continuation of Physics I completing the study of the general laws of Physics. Units in sound and light through lecture and related laboratory work. Content especially adapted to prospective teachers of physics and general science.

Sem. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Physics 425 Physics III

Prerequisite: Physics 421 and 423, Mathematics 207

Strength of materials and the materials of construction in machine and building trades. Problems in wood, steel, and concrete construction. Standard and special tests in various grades of iron and steel; building materials such as cement, brick, and woods of various kinds; glues, screws, nails, and other fasteners.

Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 2 Hrs.

Physics 347 Physics IV Radio (9 weeks)

Prerequisite: Industrial Education 119, 343, 345

Deals with the fundamental principles, construction, and operation of sending and receiving circuits. Equipment is available for assembling and testing the various circuits to study their adaptability and ease of operation. A portable short wave transmitter and receiver is used

for establishing communication with the laboratory station.

Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 4 Hrs.

ENGLISH

English 100 Preparatory English

Drill in the essentials of grammar, punctuation, and sentence structure for students who are inadequately prepared in English Composition.

Sem. I — Credit: 0 Sem. Hrs.

English 102 Composition

Training in the fundamentals of clear and correct expression; emphasis on expository writing and the organization of material; reading of books representative of the types of literature; acquisition of knowledge regarding the sources of reading materials. Two h urs of recitation work devoted to Composition; two hours devoted to Literature.

Sem. I — Credit: 3 Sem. Hrs.
Lecture, 3 Hrs.

English 103 Composition

Prerequisite: English 102

Training in the principles of effective writing; emphasis on descriptive and narrative writing.

Sem. II — Credit: 3 Sem. Hrs.
Lecture, 3 Hrs.

English 302 Advanced Composition

Prerequisite: English 103 and Junior Standing

A study of the types of composition; emphasis on the development of style.

Sem. I, III, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

English 439 Journalistic Writing

Prerequisite: Examination covering the work offered in Advanced Composition.

An advanced course preparing the competent writer for a specific type of writing.

Sem. I, II — Credit: 2 Sem. Hrs.
Lecture, 2 Sem. Hrs.

English 106 Public Speaking I

Practice in the elements of effective speaking. A variety of original speeches and criticisms.

Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

English 223 Public Speaking II

Prerequisite: English 106

Advanced instruction for those who wish to attain greater maturity in public speaking. Both classroom and public appearances.

Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

English 216 Survey of English Literature

Prerequisite: English 103

A survey of English Literature from Beowulf to the end of the Nineteenth century.

Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

English 346 Essay

Prerequisite: English 216

A study of the various types of the essay. Written and oral reports and class discussions.

Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

English 402 The Novel

Prerequisite: English 216

A study of the development of the English and American novel with special regard to the novelists of the late nineteenth and twentieth centuries. Lectures, assigned readings, critical papers, and discussions.

Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

English 404 Poetry

Prerequisite: English 216

A study of contemporary American and British poetry. Lectures, assigned readings, critical papers, and discussions.

Sem. I, II, S. S. — Credit: 2 Sem. Hrs
Lecture, 2 Hrs.

PHYSICAL EDUCATION AND COACHING

Physical Education 127 Physical Education I (Men)
Wide range of free exercise, calisthentics, floor work and games. In season mass work in athletics. Physical efficiency tests to determine individual improvement. Life saving tests to those who desire Red Cross certificates.
Sem. I, II — Credit: 1 Sem. Hr. Lab. 2 Hrs.

Physical Education 261 Physical Education II (Men)
Advanced floor work, calisthentics, tumbling and pyramid building; playground games. Individuals will conduct classes in Physical Education.
Sem. I, II — Credit: 1 Sem. Hr. Lab., 2 Hrs.

Physical Education 263 Basketball Coaching
Prerequisite: Physical Ed. 127 (9 weeks)
Types of offensive and defensive team play; organization of practices and selection of material; individual work; fundamentals; practice coaching and officiating in Intra-Mural games.
Sem. I, II, S. S. — Credit: 1 Sem. Hr. Lecture, 3 Hrs.; Lab., 2 Hrs.

Physical Education 265 Football Coaching
Prerequisite: Physical Ed. I (9 weeks)
Correct technique of the various fundamentals and more advanced methods of team play; problems of organization and administration are theoretical phases.
Sem. I, II, S. S. — Credit: 1 Sem. Hr. Lecture: 3 Hrs.; Lab. 2 Hrs.

Physical Education 128 Physical Education I (Women)
(Required of all Freshman women)
Development of good posture—maintenance and improvement of health; maintenance and development of physical efficiency, provision for wholesome and clean recreation; promotion of athletics for all. Class-work in group gymnastics, marching tactics, flash ball, basketball, volley ball, indoor baseball, swimming and folk dancing.
Sem. I, II — Credit: None Lab., 2 Hrs.

Physical Education 228 Physical Education II (Women)
Prerequisites: Physical Education 128
Advanced floorwork and Red Cross Life Saving Tests; also opportunity to referee basketball and volley ball games for women.
Sem. I, II — Credit: None Lab. 2 Hrs.

Physical Education Intra-Mural Sports (Women)
Teams are organized to represent classes in flash ball, basketball, volley ball, swimming, and indoor baseball. Games are played and meets are held under the supervision of the Women's Athletic Association.

Physical Education Remedial Gymnastics
Special work for correction of minor physical deficiencies which are noted at time of physical examination by school physician.
Sem. I — Credit: None

SHOP WORK, DRAWING AND DESIGN

All courses in this group are nine weeks in length, meeting daily. Due to the variation in the types of content included in these courses the following tabulation is given to indicate the time requirements for credits. Figures in parenthesis indicate hours in preparation:

1 period per week (2)	18 wks. 1 semester hour
2 periods per week (1)	18 wks. 1 semester hour
3 periods per week (0)	18 wks. 1 semester hour
6 periods per week (0)	9 wks. 1 semester hour
12 periods per week (0)	9 wks. 2 semester hours
10 periods per week (2)	9 wks. 2 semester hours

Industrial Education Orientation
(For Industrial Education Freshmen)
Admission requirements, program operation, attendance regulations, credits, scholastic measurement. Analysis of characteristics of a good performance in shop or drawing courses, in professional courses, in academic courses and as a teacher. Personnel problems in physical social and mental phases. Curriculum opportunities, professional requirements, trends in requirements in calls for teachers. Analysis of personal performances. Significance of choices available.
Sem. I — Credit: None
Meets 1 Hr. per week for 1 sem

DRAWING

Industrial Education 121 Elements of Mechanical Drawing
Line work; selection and use of instruments; lettering; applied Geometry; orthographic projection in first and third angles; isometric projection; revolutions, surface developments; intersections; studies in machine standards; working drawings; technical sketching.
Sem. I, II — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 8 Hrs.

Industrial Education 118 Freehand Drawing I
Line, form, and proportion; freehand perspective; balance harmony; shadow delineation; shade and shadow projection; elements of design; orthographic projections of projects in wood, sheet-metal, and machine parts, assembled and detailed; elements of typographical design; blackboard practice.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 8 Hrs.

Industrial Education 231 Architectural Drawing I
Prerequisite: Ind. Ed. 121, 118
Fundamental elements of construction and of the planning of buildings, lettering, conventions and symbols; footings and foundations; sill construction; cornices; cellar windows; double hung windows for frame, stucco and brick veneer structures; fireplaces; stairways; a study of comparation structural values of steel frame, masonry and wood frames for buildings of various types.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 8 Hrs.

Industrial Education 233 Architectural Drawing II
Prerequisite: Ind. Ed. 219, 231
A set of house plans and elevations; consisting of basement and two floor plans; roof plan; four exterior elevations; cross section, longitudinal section; mechanical equipment; illumination, both natural and artificial; water supply and sanitation; relative merits of steam, water and air as house heating mediums; materials of construction.
Sem. I, II, S. S. — Credits: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 8 Hrs.

Industrial Education 331 Architectural Drawing III
Prerequisite: Ind. Ed. 219, 231, 233
Orders of Architecture; relative merits of various styles and types of American Homes, business houses and public institutions; design of a modern home; including modern electrics; sanitation, heating and ventilation plants; details of construction; elements of law of contracts; writing of a short specification.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 8 Hrs.

Industrial Education 431 Architectural Drawing IV
Prerequisite: Ind. Ed. 219, 231, 233, 331
Water color and pen and ink rendering in perspective of the plans drawn in course 331. Detailed specifications covering the entire structure; a plot plan and general layout; continuation of Laws of Contracts coupled with writing of complete bill of estimate; a model to scale of building in some modern medium.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 8 Hrs.

Industrial Education 227 Machine Drawing I
Prerequisite: Ind. Ed. 121
Standard screw threads, representation of screw threads by standard conventions. Use of formulas and tabular data. Violations of the theory of orthographic projection. Detail and assembly drawings. Limits, fits, finish, notes, material lists. Use of hand books. Free hand technical sketching of machine parts. Consideration of tool processes in theory of dimensioning.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 1 Hr., Lab. 8 Hrs.

Industrial Education 229 Machine Drawing II
Prerequisite: Ind. Ed. 227, Math. 211
Analysis of motions, uniform, simple harmonic, uniformly accelerated and retarded. Application of various types of motions in cam construction. Plate and cylindrical cams. Roll and flat surface followers. Involute system of gearing. Spur and pinion. Pinion and rack. Annular years. Use of Grant's Odontograph. Bevel Gears. Worm and worm wheel. Trigonometric calculations.
Sem. I, II, S. S. — Credit: 2 Sem. Hrs.
Lecture, 1 Hr.; Lab. 8 Hrs.

Industrial Education 329 Machine Drawing III
Prerequisite: Industrial Ed. 227
Perspective by piercing points of visual rays. Angular perspective, parallel perspective. Use of measuring points. Vanishing points of inclined lines. Special methods for determination of perspective of circles. Application of the principles of perspective in the free hand sketching of machine parts. Dimensioning perspective drawings.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 1 Hr.; Lab. 8 Hrs.

Industrial Education 433 Machine Drawing IV
Prerequisite: Ind. Ed. 329
Detail and assembly drawing of a selected mechanism involving individual and original drawings on the part of the student. Application of the principles of Machine Drawng I, II and III. Perspective sketches of details Inking of tracings and blue prints for use as teaching material.
Sem. I, II S. S. Credit: 2 Sem. Hrs.
Lecture 1 Hr.; Lab. 8 Hrs.

ELECTRICAL WORK

Industrial Education 119 Electrical I
Essentials of electricty including wire splicing, Ohm's Law experiments, cells and batteries, signal circuits, simple light and power circuits, house wiring, direct current and power circuits, direct current generators and motors. Practical applied problems.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 4 Hrs.; Lab. 6 Hrs

Industrial Education 343 Electrical II
Prerequisite: Ind. Ed. 119
Essentials of alternating currents as applied to circuits, generators, motors and transformers. Practical conduit wiring, a study of the common types of armature windings followed by several winding problems.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 345 Electrical III
Prerequisite: Ind. Ed. 119, 343.
Advanced theory of alternating currents. Shop problems dealing with alternating current measuring instruments, transformers, and various types of alternating current motors and generators.
Sem. I, II Credit: 2 Sem. Hrs.
Lecture, 4 Hrs.; Lab. 6 Hrs.

HOME MECHANICS

Industrial Education 253 Home Mechanics I
Prerequisite: Industrial Education 121, 119, 115, 107, 109.
Selections of typical jobs necessary in the mechanical maintenance of the home are made the basis for shop assignments. Students in addition to their mechanical work, are required to make solutions of problems of management necessary to the successful operation of the general shop. Bench and mechanical equipment affords excellent opportunity for work in projects in woodwork, plumbing, electricity, woodfinishing, sheet metal repairs, and bench metal work.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 1 Hr; Lab, 9 Hrs.

Industrial Education 365 Home Mechanics II
Prerequisite: Home Mechanics I
Continuation of Home Mechanics I in advanced problems. Original research in developing new problems typical in the field of Home Mechanics. Preparation and testing of instruction. Theory, organization and management of this type of general shop.
Sem. I, II Credit: 2 Sem. Hrs.
Laboratory, 10 Hrs.

METAL WORK

Industrial Education 245 Auto Mechanics I
Prerequisite: Ind. Ed. 113; 119
Six weeks to the study, repair, and adjustments of the various units of the chassis not including the engine, on live cars brought into the shop. Three weeks to the fundamental principles of operation of the automobile engine, and adjustments of its various parts.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.

Industrial Education 247 Auto Mechanics II
Prerequisite: Ind. Ed. 245
Modern shop practice in overhauling and repairing auto

engines and their accessories. Reboring and honing cylinders; fitting new pistons, rings and piston pins; reseating, grinding, and testing valves; repairing and adjusting carburetors.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 341 Auto Mechanics III
Prerequisite: Ind. Ed. 245, 247
Electrical equipment of the automobile. Construction, principles of operation, adjustments and repair of the various types of circuits, operating units, and storage batteries. Practice in diagnosing, locating, and repairing electrcal troubles on live cars.
Sem. I, II, S. S. Credit: 2 Sem. Hrs
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 451 Auto Mechanics IV
Prerequisite: Ind. Ed. 245, 247 and 341
For teachers and prospective teachers of auto mechanics, giving experience in the preparation of instructional units for Junior and Senior High Schools and for Vocational Schools. Selection and organization of teaching material, shop lay-out, student routing and shop management, equipment selection, tool room planning and operation.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab 8 Hrs.

Industrial Education 243 Foundry I
Molding, involving cutting and tempering molding sand preparatory to ramming bench and floor molds. Core making involving making and baking of cores for molds. Cupola practice, including operation of the cupola and the handling and pouring of molten metal. Selecting mixing, and melting pig iron and machinery scrap to secure machinable qualities in the castings. Two or three heats of cast iron. Melting and pouring of brass and aluminum in a crucible.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 337 Foundry II
Prerequisite: Ind. Ed. 243
Advanced molding projects, match plates for production work. Metallurgy of the foundry. Several heats of iron, brass and aluminum.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 339 Foundry III
Prerequisite: Industrial Education 337
Advanced molding and core making problems, and cupola practice. Survey of the foundry trade. Field trips, Preparation of instructional material.
Sem. I, II Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 335 General Metal I
Prerequisite: Industrial Education 115, 113
General shop of the trade group type. Organization, courses of study, layouts, equipment, operation, uses of instructional material. Shop work in selected projects representing sheet metal, forging, heat treating, bench work, machine shop, oxy-acetylene and electric welding.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 355 General Metal II
Prerequisite: Ind. Ed. 335
Setting up, operation, maintenance, and repair of generators, tanks, gauges, manifolds, lines and torches. Setting up, operation and maintenance of arc welding equipment. Emphasis on gas and electric welding and cutting of all common metals. Instructional organization of gas and electric welding.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 113 Machine Shop I
Construction and operation of the lathe, milling machine, drilling machine, shaper and grinding machine. Shapes of the cutting tools, grinding, setting and operating. Calculations to obtain the correct feeds and speed for cutting the various metals. Related technical information. Projects involve basic processes on each machine.
Sem. I, II, S. S. Credit 2 Sem Hrs.
Lecture 1½ Hrs.; Lab. 8½ Hrs.

Industrial Education 235 Machine Shop II
Prerequisite: Ind. Ed 113
Spiral gear cutting and rack cutting involving the use

of the milling machine. Internal and external square thread cutting on the lathe. Cylindrical grinding in the universal grinder. Stress upon related information pertaining to machine shop work.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 237 Machine Shop III
Prerequisite: Ind. Ed. 235
Worm gearing, tool and cutter grinding and problems in tool making. Planning, drilling and tapping cast iron machine parts. A survey of the trade is made with a view to organizing material for teaching. Material uses and cost studies.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 hrs.; Lab. 8 hrs.

Industrial Education 435 Machine Shop IV
Prerequisite: Ind. Ed. 237
Bevel-gear cutting, punch and die making, internal grinding, problems in tool making. Studies of selection of appropriate materials. Organization of project material and instructional units.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 hrs.; Lab. 8 hrs.

Industrial Education 115 Sheet Metal I
Care and use of sheet metal hand tools and machines; the drafting of simple patterns by means of parallel lines, radial and approximate development; making the problems drafted or layed out, studying their construction; related information; the manufacture, buying, sizes, quantities, etc. of the supplies.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 8 Hrs

Industrial Education 239 Sheet Metal II
Prerequisites: Industrial Education 115
Drafting irregular patterns by means of triangulation, triangulation using the top view in the layout, triangulation using both top and side view in the layout, triangulation using the side view only in the layout, shop practice in the make up of irregular fittings from various fields of sheet metal work.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs; Lab. 8 Hrs.

Industrial Education 241 Sheet Metal III
Prerequisite: Industrial Education 115, 239
Shop problems in blower and exhaust piping, architectural work, heating and ventilating, drafted and made up. Mensuration applied to sheet metal containers. Review of triangulation; advanced forms of parallel line and radial development.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 333 Sheet Metal IV
Prerequisite: Industrial Education 115, 239, 241
Organization of sheet metal work for teaching in junior and senior high schools and vocational schools; shop layouts, courses of study, equipment. Fundamentals of working copper and brass; projects involving hard soldering, raising, chasing, seaming, piercing, etching, coloring.
Sem. I, II Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 8 Hrs.

PRINTING

Industrial Education 117 Printing I
Elements of composition, stonework and platen press work. Graded projects in straight composition involving basic operations. Proofreading and form correcting. Supplementary lectures and demonstrations.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 255 Printing II
Prerequisite: Ind. Ed. 117
Continuation of Printing I consisting of problems in display composition, stonework, and platen press work. An introduction to commercial problems and jobs through use of typical projects. Allows gain in skill as craftsmen. Supplementary lecture periods devoted to typographical design and its application.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 8 Hrs.

Industrial Education 257 Printing III
Prerequisite: Ind. Ed. 117, 255
Advanced problems in composition and presswork. Practical production jobs of all types produced under foremanship system. Special processes are studied and

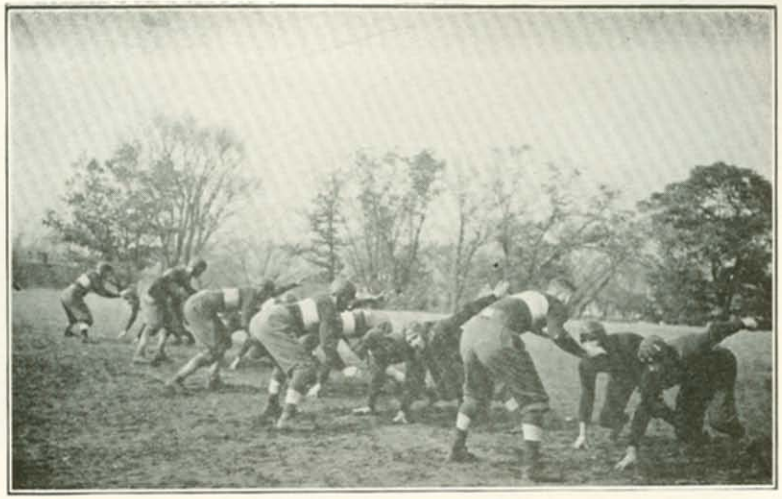
practiced in shop including embossing, three-color process, virkotyping, etc. Emphasis on the selection of content for teaching.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 351 Printing IV Machine Composition
Prerequisite: Ind. Ed. 117, 255, 257
Study of intertype and linotype machines. Includes study of the complete mechanism, care, and operation of type setting machines. Time equally divided between mechanism and practice operating. Restricted to students who have attained at least an average grade in previous courses in printing.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture 3 Hrs.; Lab. 7 Hrs.

Industrial Education 359 Co-operative Printing (Off-Campus and Campus)
Prerequisite: Ind. Ed. 117, 255, 257
Full time work in a commercial shop under the supervision of a co-ordinator. Campus co-operative printing consists of production work in the school shop. Maximum time required equivalent to two regular shop courses.
On request for qualified students. Credit: 2 Sem. Hrs.
Lab. 24 Hrs.

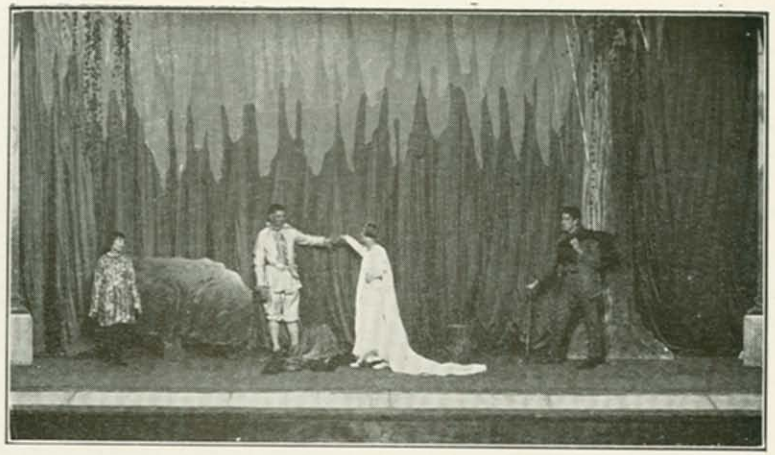
Industrial Education 259 Printing V (School Publications)
Prerequisite: Ind. Ed. 117, 255, 257
To equip teachers of printing to handle school periodicals as a part of their work. Study of school newspapers, magazines, and annuals from the viewpoint of organization and operation. Elements of journalism and their application in the publication of The Stoutonia, the weekly newspaper.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture 3 Hrs.; Lab, 7 Hrs.

Industrial Education 361 Printing VI Printing Design
Prerequisites: Ind. Ed. 117, 255, 257
Application of elementary art and design to pratical printing. Study of type design, commercial layouts, color applications, cover design, and linoleum block carving. Lectures, shop work, and drawings.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture 4 Hrs.; Lab. 6 Hrs.

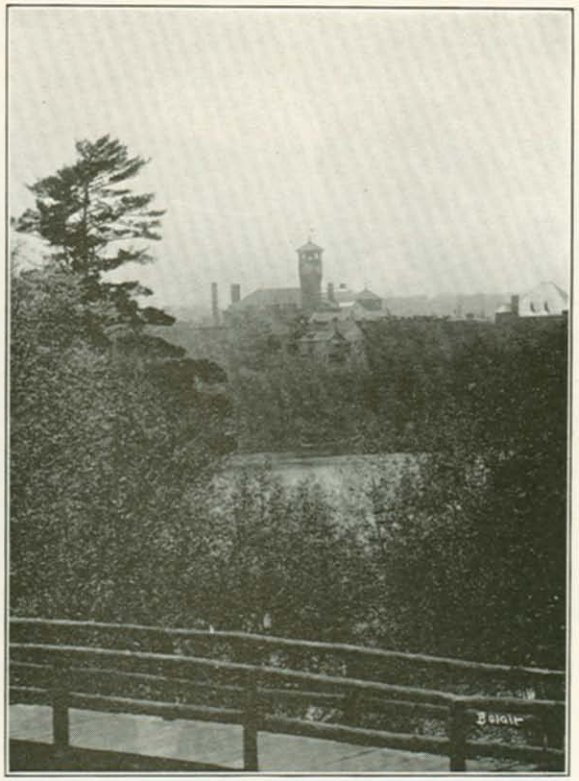


FALL PRACTICE ON THE FOOTBALL FIELD

THE STOUT BAND—ONE OF THE SEVERAL ACTIVE EXTRA-CURRICULAR ORGANIZATIONS



THE MANUAL ARTS PLAYERS—A DRAMATIC ORGANIZATION OPEN TO MEN AND WOMEN STUDENTS



THE STOUT BUILDINGS FROM THE EAST SHORE OF LAKE MENOMIN

Industrial Education 449 Printing VII Printing Economics
Prerequisites: Ind. Ed. 117, 255, 257
Acquaints the teacher of printing with economic problems of both commercial and school print shops. Shop organization and management, purchasing of equipment and supplies, shop layouts, and cost estimating. Lectures supplemented by references and practical problems.
S. S. Credit: 2 Sem. Hrs.
Lecture, 4 Hrs.; Lab. 6 Hrs.

WOODWORK

Industrial Education 107 Elements of Woodwork I
Basic processes in hand woodwork. Study and performance in sharpening and care of common hand tools. Study and performance in getting out stock, laying out and making common joints and constructions thru the use of exercises and a project involving fundamental or basic processes and joints.
Sem. I, II Credit: 2 Sem. Hrs.
Lecture: 2 Hrs., Lab. 8 Hrs.

Industrial Education 116 General Woodwork I
Prerequisite: Ind. Ed. 107
Study and performance in Pattern Making, Wood Turning and Carpentry. General Shop Plan, with exercises and projects typical of each unit of Woodwork; three groups rotating in three week units.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 8 Hrs.

Industrial Education 363 General Woodwork II
Prerequisites: Ind. Ed. 107, 109, 213, 215, 221.
Study and performance in Cabinet Making, Wood Turning, Carving and Inlaying, Upholstery, and Wood Finishing. Work organized around a project, exercises where necessary. Groups or individual specialization on one unit for not over two thirds time according to previous experience and interests.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture: 1 Hr.; Lab. 9 Hrs.

Industrial Education 213 Millwork (Woodworking Machine Operation)
Prerequisite: Industrial Education 107, 109.
Use and incidental care of woodworking machinery, with special emphasis on operating methods. Jobs analyzed

and routing procedure sequences planned and approved. Lumber classification, grading, scaling, and clerical work of keeping records of amounts and values. Glue and gluing problems in building up stock. Shop layout, highly specialized charts of factory sawing and machine squaring of stock furnished. Field trips.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 315 Millwork II (Care of Machines)
Prerequisites: Industrial Education 107, 109, 213.
Practical experience in repair and maintenance of woodworking machines: Saw fitting, jointing, gumming, filing swaging, setting, pointing-up, side-dressing, occasional, tensioning. Band saw brazing. Knife setting. Knife fitting: jointing, grinding, filing, honing and balancing. Alignment of machine parts and bearing work. Machine setting. Power transmission and belting problems. Cutting speeds and angles. Shaper and molding knife work if desired. Field trips.
On request for qualified students. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 215 Cabinet Work I (Case and Furniture Making)
Prerequisite: Industrial Education 107, 109, and 213.
Building cases, furniture and demonstration teaching models supplemented by: Testing and studying moisture content of lumber, testing and graphing relative humidity of atmosphere, testing and studying contraction, expansion, warping, case hardening and construction of lumber. Analysis and classification of case and furniture construction, including a study of joints. Analysis of cabinet making occupation, industrial methods with procedure sequences. Billing stock; glue; gluing; veneer; specialized system of face marking and laying out. Field trips.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 3 Hrs.; Lab. 7 Hrs.

Industrial Education 217 Cabinet Work II (Case and Furniture Making)
Prerequisite: Industrial Education 107, 109, 213 and 215.
Extension of Ind. Ed. 215, emphasis on industrial production basis. Seventeen stationary machines in the Mill Room, sixteen portable bench room machines and extensive equipment for assembling in Cabinet Shop, available for getting out (squaring up) stock, laying (setting) out, making joints, assembling and bench work required on any project. Machine work is encouraged to the fullest extent. Field trips.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture: 2 Hrs.; Lab. 8 Hrs.

Industrial Education 317 Cabinet Work III (Selecting, Designing and Drawing Projects)
Prerequisites: Industrial Education 107, 109, 213, 215 and 217.
Study and application of industrial arts design in regular and supplementary projects. Preparation of stock cutting bills and routing procedures. Adaptions and adjustments to fit time limits, style, construction difficulties, experience range and equipment restrictions. Field trips.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture 3 Hrs.; Lab. 7 Hrs.

Industrial Education 427 Cabinet Work IV (Shop Work)
Prerequisite: Industrial Education 107, 109, 213, 215, 217 and 317.
Construction of projects planned in Ind. Ed. 317. Use of full size working drawings, stock cutting bills and routing procedures. Preparation of illustrative instructional material. Field trips.
Sem. I, II Credit: 2 Sem. Hrs.
Lecture: Individual advisory; Lab. 10 Hrs.

Industrial Education 447 Cabinet Work V (Co-operative)
Prerequisite: Industrial Education 107, 109, 213, 215, 217, 317, 427, 315 if possible, and special arrangements with the Woodwork Committee.
Provision for practical industrial experience in woodworking plants in surrounding cities, local industries, or production work on the campus. Applies on Smith-Hughes requirements. Frequently brings enough financial return to cover living expenses. Special field trips.
On request for qualified students. Credit: 2 Sem. Hrs.
Lab. 24 Hrs.

Industrial Education 219 Carpentry I
Prerequisites: Ind. Ed. 107, 109
Staking out for a building; concrete form constructed for a basement section; concrete poured; form wrecked.

Construction in floor framing, wall framing, and roof framing in actual house construction. Large scale drawing. Reference assignments and notes.
Sem. I, S. S. Credit: 2 Sem. Hrs.
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 319 Carpentry II
Prerequisites: Ind. Ed. 107, 109, 219
The steel square as used in roof framing, construction of one or more equal-pitch roofs. Porch construction and exterior finishing. Preparation of roof and porch construction drawings suitable for instruction charts.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture 3 Hrs.; Lab. 7 Hrs.

Industrial Education 321 Carpentry III
Prerequisites: Ind. Ed. 107, 109, 219, 319.
Advanced roof framing, including unequal-pitch roofs, polygon roofs, conical roofs, and curved roofs. Interior finishing and stair building in typical applications in actual building construction, or practice. Drawing assignments.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Lecture: 2 Hrs.; Lab. 8 Hrs.

Industrial Education 429 Carpentry (Cooperative) IV
Prerequisites: Ind. Ed. 107, 109, 219, 319, 321.
Organized to give the student majoring in carpentry the benefit of actual trade contacts and of participation in commercial building construction. Student required to spend the full time of the course working under an approved competent mechanic. Includes a definite range of contacts to be made end of work to be performed.
Offered on request to qualified students Credit: 2 Sem. Hrs.
Laboratory: 20 Hrs.

Industrial Education 453 Carpentry V
Prerequisites: Ind. Ed. 107, 109, 219, 319, 321, 429.
Advanced phases of carpentry including mechanics of Carpentry and Economics of Carpentry. Problems in instruction in carpentry. Preparation of charts and plans for instructional aids in carpentry.
Sem. I, S. S. Credit: 2 Sem. Hrs.
Lecture, 3 Hrs.; Lab. 7 Hrs.

Industrial Education 353 Furniture Upholstery I
Upholstering tools and equipment; materials used; cost of materials and equipment; chair frame construction for upholstery; pad seat and pad back upholstery; the spring seat and spring back; curved back upholstering; study of leathers, tapestries, velours, mohairs; planning and cutting the covering materials; repairing upholstered furniture.
S. S. Credit: 2 Sem. Hrs.
Lecture 1 Hr.; Lab. 9 Hrs.

Industrial Education 225 Patternmaking I
Prerequisite: Industrial Education 107
Wood patterns of machine parts for casting in iron, brass and aluminum. Study of types of work performed by patternmakers. Patternmaking allowances; shellacing a pattern to convey information to a molder. Patterns involving solid, split and segmental construction. Core boxes for whole and half cans, right and left hand, interchangeable baked sand cores. Patternmaking materials. Visit to a foundry.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 8 Hrs.

Industrial Education 325 Patternmaking II
Prerequisite: Industrial Education 225 and 243
Patterns for sheave wheel; bevel gear blank; mounted and gated patterns for production work; irregular shaped patterns and match plates. 2 in. soil pipe fittings involving bench and lathe work and built up core box construction. Segmental pully construction involving spokes, webs and bosses. Survey of patternmaking and organization of instructional material.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 8 Hrs.

Industrial Education 327 Patternmaking III
Prerequisite: Industrial Education 325
Planning and building patterns for a small machine such as drill press, bench grinder, electric motor. Place of patternmaking in industry. Study of construction of patternmaking for sweep work in the foundry. Pattern shop equipment plans for school shops.
Sem. I, II Credit: 2 Sem. Hrs
Lecture 2 Hrs.; Lab. 8 Hrs.

Industrial Education 221 Wood Finishing I
Study and application of basic wood finishes. Special study of types of finishes in different fields of the wood-

working industry. Practice in finishing new work; refinishing old work. Modern practice in finishing, including air spraying.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture: 2 Hrs.; Lab. 8 Hrs.

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HOME ECONOMICS

COURSES IN FOODS AND NUTRITION

Home Economics 116 General Nutrition
Elementary course in Nutrition; selection of a proper diet for good health with a consideration for costs.
S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Home Economics 230 Food Marketing and Preparation
Prerequisite: Chemistry 110
Selection and preparation of food, analysis of recipes. Standard products, simple table service, grading of foods, laws and standards regarding food materials, food preservation.
Sem. I Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Home Economics 232 Food Marketing and Preparation
Prerequisite: Home Economics 230
Continuation of Home Economics 230.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs

Home Economics 308 Foods III
Prerequisite: Home Economics 232
Planning menus for different costs, suitable service for informal family meals. Food combinations, menus and service for special functions.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lecture, 1 Hr.; Lab., 3 Hrs.

Home Economics 400 Food Demonstration
Instruction in the technique of food demonstration, planning and giving demonstrations for specific types of audiences. Lecture demonstrations by specialists from commercial fields.
Sem. I, II, S. S. Credit: 2 Sem. Hrs.
Lab., 4 Hrs.

Home Economics 416 Readings in Food
Prerequisite: Home Economics 232 and Junior Ranking.
Survey of research work being done in foods by various educational institutions, commercial firms, special bureaus, etc. Review of late books and magazine articles.
Sem. I, S. S. Credit: 1 Sem. Hr.
Lecture, 1 Hr.

Home Economics 438 Experimental Cookery
Prerequisite: Home Economics 232
Experimental work in food preparation. Study of factors which influence standard products.
Sem. II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab. 4 Hrs.

Home Economics 212 Nutrition I
Prerequisite: Chemistry 208
Simple fundamental principles of human nutrition and the nutritive properties of food materials. Application of such knowledge to the feeding of individuals. Laboratory: estimating food values, calculation and preparation of simple dietaries with reference to cost.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Home Economics 310 Nutrition II
Prerequisite: Home Economics 212
Prerequisite or Parallel Course: Chemistry 322
Advanced study of Nutrition in relation to health, digestive and metabolic processes and products. Infant feeding. Laboratory: diets for groups as well as individuals, preparation of infant diets.
Sem. I, S. S. Credit: 3 Sem. Hrs.
Lecture 2 Hrs.; Lab. 2 Hrs.

Home Economics 418 Nutrition III
Prerequisite: Home Economics 310
Abnormal nutrition with dietary treatment in certain diseases, biological studies on the white rat when fed on different diets. Laboratory: metabolism measurements with the respiratory apparatus, calculation, preparation of diets for nutritional diseases.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab. 2 Hrs.

Home Economics 306 Child Nutrition
Prerequisite: Home Economics 212
A study of the nutritional status of children, methods of judging good and poor nutrition, causes and effects of malnutrition with prevention and treatment, the nutritional class and the opportunity of the schools for improving nutrition. Laboratory: preparation of the noon meal for preschool children, field work in measuring and weighing children, teaching good health and food habits to the grade school children.
Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture: 2 Hrs.; Lab. 2 Hrs.

Home Economics 300 Applied Institutional Management.
Prerequisites: Home Economics 232
Planning, preparing and serving of food in large quantities. Special emphasis placed upon standardization of quantity recipes, standard methods for quantity food production, daily cost accounting, practice in table service.
Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab. 6 Hrs.

Home Economics 328 Institutional Administration
Prerequisites: Home Economics 300 or 418 :
Theory and principles of scientific management applied to Institutional Administration. Emphasis on various forms of business organization, manager's requirements and duties, employees, institutional purchasing of food and equipment, lay-out of space, food preparation and service, keeping of records, public hospitality and group loyalty.
Sem. I Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab. 4 Hrs.

Home Economics 440 Institutional Problems
Prerequisites: Home Economics 328
Specific problems of the institutional manager, opportunity for observation and practical experience in the various departments of the kitchen and other phases of managerial work in The Stout Cafeteria. Party service.
Sem. II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab. 4 Hrs.

COURSES IN CLOTHING AND TEXTILES

Home Economics 100 Textiles
Characteristics, identification and production of textile fibers. Manufacturing processes in so far as they affect the quality, appearance, durability and cost of fabrics. Tests for home and laboratory use.
Sem. I, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Home Economics 105 Elements of Clothing Construction
Prerequisite or Parallel: Home Economics 100
Study of patterns; selection of fabrics; construction processes; fundamental problems in the making of simple garments; use and care of sewing machine. Emphasis on technique.
Sem. I, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Home Economics 218 Dressmaking
Prerequisite: Home Economics 104; Related Art 220
Problems in advanced construction processes as applied to silk and wool dresses; appropriatness of designs and fabrics; fitting; individual clothing budget.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Home Economics 312 Applied Dress Design
Prerequisite: Home Economics 218
Practical application of principles of costume design. Use of line, proportion, texture, and color to express individuality. Practice in draping; construction of costumes.
Sem. I, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Home Economics 314 Childrens Clothing
Prerequisite: Home Economics 218
Problems in the selection, planning and making of infant's and children's clothing. Observations in the nursery school to study the relationship of structural design to self help. Garments designed and made for children who can be studied and fitted in the laboratory.
Sem. II, S. S. Credit: 2 Sem. Hrs.
Laboratory, 4 Hrs.

Home Economics 316 Clothing Economics
Prerequisite: Economics 201
Selling points of standard fabrics and ready-to-wear clothing; shopping responsibility of the consumer;

standardization of textile products; cost of fashion; family clothing budgets.
Sem. I, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Home Economics 336 Clothing Problems
Prerequisite: Home Economics 218
Investigation of problems in clothing with organization and presentation of results; preparation of illustrative material; collection and evaluation of commercial aids for teaching textiles and clothing.
Sem. I, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

COURSES IN ORIENTATION

Home Economics 116 Orientation
Problems relative to the guidance, adjustments and participation of the freshman woman as a member of the present day college group. Health program, college schedules, relationship of courses, extra curricular activities, and social relations and recreations.
Sem. I Credit: 1 Sem. Hr.
Lecture, 1 Sem. Hr.

COURSES IN SOCIAL AND ECONOMIC PROBLEMS OF THE FAMILY

Home Economics 326 Problems of the Family
Prerequisite: Junior Standing
Historical study of the development of the family and effects of same upon social status of woman. Consideration of present social tendencies in relation to the home as reflected in current events and literature.
Sem. II Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Home Economics 202 Survey of the Modern Home
Introductory course in home economics. Study of the activities of the modern home in meeting the needs of the family group. Relation of home economics subject matter to these problems. Other professional values of home economics training.
Sem. II Credit: 2 Sem. Hrs.
Lecture, 2 Hrs

Home Economics 318 Physical Development and Welfare of Young Children
Prerequisite: Physiology 214
The physical development of the child from early embryonic life to 18 months, and the care of the mother and child throughout the period. Public provision for maternity and infancy. Opportunities in the field of child welfare for home economics trained women.
Sem. I, II Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Home Economics 346 Child Development I
Prerequisite: Education 204, Home Economics 318
A study of the mental development of the child considering the relation of heredity to environment, gross and specific motor control, sense perceptions, language development and reasoning. Personality adjustment in relation to social behavior is emphasized. Educational importance of play equipment, books and music for children. Observations in nursery school and reports.
Sem. I, S. S. Credit: 2 Sem. Hrs.
Lecture, 2 Hrs.

Home Economics 348 Child Development II
Prerequisite: Home Economics 346
Study of habit formation and character building through the consideration of obedience, punishment, emotional control, curiosity, and responsibility. History and appreciation of the nursery school movement. Appreciation of the parental education movement. Content for short unit courses in child training.
Sem. II, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.

Home Economics 330 Home Administration
Prerequisite: Social Science 201
Standards and methods for the efficient utilization of time, equipment and money resources of the home, including analysis of homemaking activities, time and motion studies, kitchen planning from the efficiency standpoint, factors determining price and effectiveness of equipment, other problems of expenditure and the relation of general management to family development.
Sem. I, II Credit: 3 Sem. Hrs.
Lecture, 3 Hrs.

Home Economics 422 Home Management House
Prerequisite: Senior Standing
Application of principles of scientific management, child care and training, and family relationships to home-making through residence for six weeks in the home management house.
Sem. I, II Credit: 3 Sem. Hrs.
Group discussions, individual conferences

COURSES IN RELATED ART

Related Art 114 Color and Design
Elements of design, line, proportion, color and texture relative to their recognition and significance in fine and industrial art. Appropriateness to purpose. Principles of design as controlling factors in the use of the elements in structural and decorative design. Laboratory practice in the selection, arrangement, and decoration of objects for use.
Sem. I Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Related Art 332 Advanced Design
Prerequisites: Related Art 114, 220.
Historic and other design courses. Theory of color. Application of the principles of design to the decoration of accessories for house and costume. Craft processes involving the use of textiles, embroidery, block print, wax crayon, batik, stencil, applique, and the decorative use of dye.
Sem. II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Related Art 220 Costume Selection
Prerequisite: Related Art 114
Study of the individual figure and personal coloring Practice in the use of line, proportion, color, texture, pattern, and decoration in relation to dress. Use of art principles as bases for clothing selection.
Sem. I, S. S. Credit: 2 Sem. Hrs.
Laboratory, 4 Hrs.

Related Art 436 Costume Design
Prerequisites: Related Art 114, 220
Historic costume studied from design standpoint. Technique of designing. Problems in costuming for plays and pageants.
Sem. II Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Related Art 334 House Furnishing I
Prerequisites: Related Art 114, Home Economics 100
Standards for furnishing the house and apartment with emphasis on the significance of line, proportion, color texture, and pattern in interiors. Principles of design as bases for the appropriate treatment of walls, floors, and windows. Selection and arrangement of furnishings.
Sem. I, II, S. S. Credit: 3 Sem. Hrs.
Lecture, 1 Hr.; Lab., 4 Hrs.

Related Art 432 House Furnishing II
Prerequisite: Related Art 334
Economic problems of house furnishing. Identification of types, makes and grades of household commodities. Range of prices and quantites for various budgets. Methods of furnishing. Types of financing. Local and city house furnishing markets.
Sem. II, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Related Art 434 House Furnishing III
Prerequisite: Related Art 334
Present day domestic architecture as influenced by historic styles, American Colonial and Georgian, English, French, Italian, and Spanish. Period interiors, furniture and accessories, and their adaptation to modern houses and apartments. Modernistic tendencies in house furnishing. Visits to museums and shops.
Sem. I, II Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Related Art 430 Art History and Appreciation
Prerequisites: Related Art 114; Junior or Senior Ranking.
Survey of the architecture, sculpture, painting and the minor arts of the most significant historic periods. Contemporary arts and crafts, etchings, lithographs, block prints, reproductions of paintings, pottery, glass, metal, wood, and composition materials. Visits to museums and shops.
Sem. II, S. S. Credit: 3 Sem. Hrs.
Lecture, 2 Hrs.; Lab., 2 Hrs.

Related Art 426 Seminar in Related Art

Prerequisite: Senior standing.

Problems relating to the selection, adaptation, and presentation of related art subject matter in homemaking courses for various types of schools; junior and senior high, continuation, evening, and rural high. Choice of problems based on needs and interests of individual students.

Sem. II — Credit: 3 Sem. Hrs. Lecture, 2 Hrs.; Lab., 2 Hrs.

STUDENT ROSTER
1929-1930

HOME ECONOMICS STUDENTS

Aber, Georgia H. '32 Racine, Wis.
Ades, Alva '32 Wautoma, Wis.
Ades, Evelyn '33 Wautoma, Wis.
Alcott, Genevieve '33 Menomonie, Wis.
Alcott, Sylvia, '32 Menomonie, Wis.
Allen, Margaret '31 Eau Claire, Wis.
Anderson, Ardella '31 Rice Lake, Wis.
Anderson, Emma '31 Iron Mountain, Michigan
Anderson, Mrs. Emma M. sp. Menomonie, Wisconsin
Anderson, Ethel '32 Crosby, Minn.
Anderson, Myrtle '32 Colfax, Wis.
Andreassen, Laura '32 Menomonie, Wisconsin
Anspach, Marion '32 Neenah, Wis.
Ausman, Dorothy '33 Elk Mound, Wis.
Bailey, Nellie '30 Fennimore, Wis.
Bassuener, Ruth '31 Sheboygan, Wis.
Bechtol, Virginia Lee Minneapolis, Minn.
Belina, Mildred '30 Owatonna, Minn.
Blosmo, Mrs. H. sp. Menomonie, Wis.
Bonesho, Paulene '33 Eau Claire, Wis.
Borchert, Evelyn '31 Menomonie, Wis.
Brevig, Edith M. '33 Starbuck, Minn.
Brick, Caroline '32 Manitowoc, Wis.
Bricker, Berniece '32 Park Falls, Wis.
Bunker, Helen D. '31 Menomonie, Wis.
Bunker, Lois Ina '31 Menomonie, Wis.
Cadigan, Cecilia '31 Casco, Wis.
Cantelon, Elaine '32 Warroad, Minn.
Carmody, Mary A. '33 Mt. Hope, Wis.
Carter, Mrs. Anne '30 Menomonie, Wis.
Carter, Elizabeth '33 Drummond, Wis.
Casey, Margaret '30 Bloomington, Wis.
Catura, Sarah O. sp. Menomonie, Wis.
Chamberlin, Helen '32 Menomonie, Wis.
Chronquist, Minnie '33 Poskin, Wis.
Clark, Janet '30 Menomonie, Wis.
Clemens, Ruth '33 Amery, Wis.
Cockerill, Alice '31 San Juan, Texas
Cole, Dorothy '32 Goodman, Wis.
Cooper, Winifred '30 Colfax, Wis.
Costello, Helen '30 Winnipeg, Canada
Counsell, Kathryn '30 Oconomowoc, Wis.
Cranston, Mercedes '31 Menomonie, Wis.
Cress, Marian '32 Ellsworth, Minn.
Cronk, Marjorie '31 Menomonie, Wis.
Curran, Elizabeth '32 Menomonie, Wis.
Damrow, Nelda '31 Fond du Lac, Wis.
DeCramer, Marietta '31 Oshkosh, Wis.
Dingee, Mildred '30 Kilborn, Wis.
Dinnies, Edna '31 Menomonie, Wis.
Dodge, Dorothy '33 Rib Lake, Wis.
Dodge, Ruth '31 Menomonie, Wis.
Dodson, Mary Jane '33 Siren, Wis.
Dow, Mrs. Grace M. Menomonie, Wis.
Dutton, Genevieve '33 Menomonie, Wis.
Edinger, Josephine '31 Wadena, Minn.
Ehrhard, Helen M. '30 Menomonie, Wis.
Eichorst, Edna A. '33 Avoca, Wis.
Evans, Janet '32 Oshkosh, Wis.
Fitzpatrick, Mildred E. '33 Menomonie, Wisconsin
Foeller, Jane '33 Green Bay, Wis.
Flaget, Hazelle '30 Fergus Falls, Minn.
Florin, Vivian H. '33 Cochrane, Wis.
Fox, Mary '30 Elgin, Ill.
Funk, Marjorie E. '30 Menomonie, Wis.
Galloway, Gail '32 Libertyville, Ill.
Geiger, Nellie sp. Withee, Wis.
Giese, Evelyn M. '31 Menomonie, Wis.
Gilbertson, Irma '32 Black River Falls, Wisconsin
Graslie, Katherine 32 Spring Valley, Wis.
Green, Mary '31 Menomonie, Wis.
Gundlach, Anita '31 Livingston, Wis.
Gutwasser, Velma '33 Chippewa Falls, Wisconsin
Haggard, Mildred '32 West Allis, Wis.
Hambley, Jane '30 Ramsey, Mich.
Hanley, Eva '33 Menomonie, Wis.
Hansen, Emma '32 Menomonie, Wis.
Hansen, Gertrude E. '30 Duluth, Minn.
Hansen, Jessie '31 Geraldine, Montana
Hart, Marquerite '31 Hannibal, Mo.
Haslurd, Alice '31 Crookstown, Minn.
Haverlandt, Blanche C. sp Prescott, Wisconsin
Hebl, Lucille C. '33 Marshall, Wis.
Hellum, Evelyn J. '33 Menomonie, Wis.
Hendrickson, Belinda '33 Menomonie, Wisconsin
Hendrickson, Esther '33 Menomonie, Wis.
Henry, Doris '32 Zion, Ill.
Hewitt, Vivian E. '31 Ettrick, Wis.
Hickok, Murel '33 Oshkosh, Wis.
Hill, Frances '31 Colfax, Wis.
Hobart, Louise '32 Lake Crystal, Tenn.
Hossman, Ruth '33 Menomonie, Wis.

Hryz, Mary A. '31 Melrose, Wis.
Huson, Lisle May '33 Mundelein, Ill.
Inenfeldt, Frances '31 Menomonie, Wis.
Jensen, Eva '32 Downsville, Wis.
Johnson, Myrtle sp Fond du Lac, Wis.
Jordheim, Olga M. sp Menomonie, Wis.
Kelly, Patsy Ruth '33 Mankato, Minn.
Keturakat, Martha '33 Menomonie, Wis.
Koboski, Vivian '33 Menomonie, Wis.
Koss, Harriet E. Algoma, Wis.
Kyle, Janet sp Menomonie, Wis.
Lamon, Lois '32 Elmwood, Wis.
Lanckton, Adele '30 Menomonie, Wis.
Langesth, Edna '33 Worthington, Minn.
Larsen, Eloise '31 Menomonie, Wis.
Leavitt, Ruth E. '32 Pasadena, Cal.
Lind, Kathleen '32 Menomonie, Wis.
Lindall, Ruth '30 St. Paul, Minn.
Linderson, Grace '32 Clear Lake, Wi.
Litchfield, Lorraine '33 Eau Claire, Wis.
Lockhart, June '33 Oshkosh, Wis.
Lynum, Alice '33 Baldwin, Wis.
McClurg, Carol '32 Menomonie, Wis.
McGuinness, Mrs. Grace Menomonie, Wis.
McKowen, Esther '30 Lake Crystal, Wis.
McMahon, Margaret '33 Menomonie, Wisconsin
McNab, Charlotte '33 Taylor, Wis.
Madden, Dorothy '33 Port Edwards, Wis.
Malcolm, Ruth E. '31 Chetek, Wis.
Mathews, Edna Clare '31 Ashland, Wis.
Meyer, Irene '33 Withee, Wis.
Moe, Aagot '31 Menomonie, Wis.
Moe, Jean '33 Chetek, Wis.
Moore, Miriam E. '33 Montezuma, Ia.
Murray, Elizabeth '33 Ashland, Wis.
Neergaard, Mabel, '31 Kenosha, Wis.
Nelson, Alice '33 Menomonie, Wis.
Nelson, Ellen F. '32 Crystal Falls, Mich.
Ness, Clarysse M. '32 Hendricks, Minn.
Newby, Emma '33 Appleton, Wis.
Nichols, Irma '30 Menomonie, Wis.
Nordlie, Lorraine '33 Eau Claire, Wis.
Novak, Helen '31 Cobb, Wis.
Oleson, Ruth '33 Oshkosh, Wis.
Olson, Mrs. Bernice '32 Menomonie, Wis.
Osgood, Mariorinda '33 Menomonie, Wis.
Ostrom, Alice '33 Reads, Minn.
Overby, Eleanor '31 Rice Lake, Wis.
Page, Elva M. '30 Elk River, Minn.
Parsons, Violette '30 River Falls, Wis.
Petersen, Eveline '32 Oshkosh, Wis.
Pierson, Eleanor '32 Menomonie, Wis.
Pratsch, Fannie E. sp DePere, Wis.
Quarters, Grace H. '32 Superior, Wis.
Quilling, Henriette '31 Menomonie, Wis.
Rasmussen, Helga '31 Racine, Wis.
Ray, Myrtle '30 Milwaukee, Wis.
Richardson, Florence '30 Ironton, Minn.
Riter, Edith '33 Belmont, Wis.
Robb, Marjorie '30 Canton, Wis.
Robertson, Janet '33 Winnebago, Minn.
Ross, Eileen '33 Maywood, Ill.
Rossler, Rhoda '33 Menomonie, Wis.
Schlumpf, Virginia '33 Durand, Wis.
Schnase, Helen C. '33 Ellsworth, Wis.
Schroeder, Eleanor '33 Appleton, Wis.
Schroeder, Frances '31 Two Rivers, Wis.
Schroeder, Marie '33 Granton, Wis.
Schroer, Mabel E. '33 Minneapolis, Minn.
Schultz, Lucille '33 Stratford, Wis.
Schultz, Ruth C. R. '31 Evanston, Ill.
Senty, Margaret '32 Independence, Wis.
Sichler, Esther M. '31 Alma Center, Wis.
Sievert, Henrietta '30 Marinette, Wis.
Simonson, Marie E. '32 Cameron, Wis.
Shannon, Kathleen '31 Crosby, Minn.
Speirs, Doris L. '33 Cameron, Wis.
Steinbring, Lorraine '33 Fall Creek, Wis.
Stephany, Marceline '31 Port Washington Wisconsin
Taddy, Frances '31 Two Rivers, Wis.
Tafel, Ruth E. '33 Chippewa Falls, Wis.
Todd, Beulah '30 Houston, Minn.
Verbrick, Florence '32 Appleton, Wis.
Vergin, Eleanor '33 Dallas, Wis.
Volp, Valeria '32 Menomonie, Wis.
Wahl, Margrete '32 Menomonie, Wis.
Walstrom, Violet '33 Aurora, Wis.
Watchorn, Charlotte '31 Hougton, Mich.
Weir, Hazel '32 Woodman, Wis.
Werth, Valeria '33 Menomonie, Wis.
Westman, Anna N. '33 Stambaugh, Mich.
Whitehurst, Louise '30 Savannah, Ga.
Wike, Eldrid "32 Colfax, Wis.
Williams, Dorothy '31 Menomonie, Wis.
Williams, Elizabeth '30 Menomonie, Wis.
Winzer, Alma '30 Heron Lake, Minn.
Wittman, Mrs. Eva H. sp Menomonie, Wisconsin
Worachek, Evelyn '32 Menomonie, Wis.
Zimmerman, Mrs. Mabel J. '32 Menomonie, Wis.
Zimmerman, Ruth '33 Phelps, Wis.

INDUSTRIAL EDUCATION STUDENTS

Anderson, Albert '32 Menomonie, Wis.
Anderson, Frode '32 Motley, Minn.
Anderson, Otto '31 Menomonie, Wis.
Aune, Walter J. '33 Osseo, Wis.
Baker, Otto '33 N. Menomonie, Wis.
Barber, John W. '31 Menomonie, Wis.
Bechtold, Conrad '30 West Salem, Wis.
Beil, Alfred M. '30 Greenville, Pa.

Beier, Edwin '31 Rockford, Ill.
Beinert, Carl J. '31 Waupun, Wis.
Berg, Oswald '33 Whitehall, Wis.
Berger, Ray '31 Menomonie, Wis.
Berndt, James '33 Menomonie, Wis.
Betterley, Melvin L. '32 Elmwood, Wis.
Bielecki, Theodore '32 Bessemer, Mich.
Bitter, David '32 Stoughton, Wis.
Biwer, George '32 Wausau, Wis.
Borg, LeRoy Superior, Wis.
Bramstedt, H. H. '32 Fond du Lac, Wis.
Brandt, Harold '32 Wakefield, Mich.
Branshaw, Wayne '33 Elmwood, Wis.
Bronstad, Blair '31 Menomonie, Wis.
Browe, Leonard '33 Menomonie, Wis.
Brownsey, Ralph '33 Wadena, Minn.
Bryant, George sp Menomonie, Wis.
Buros, Herman R. '33 Superior, Wis.
Buss, Irven O. '33 Menomonie, Wis.
Butenhoff, John '32 Milwaukee, Wis.
Canatsey, Byron E. Jacksonville, Ill.
Carnes, John S. '31 Red Wing, Minn.
Christensen, Ernest '31 Ashland, Wis.
Clementson, A. Orville '31 Menomonie, Wisconsin
Colburn, Arthur L. '31 Anko, Minn.
Cossette, George '33 Chisholm, Minn.
Cotton, Sidney A. '31 Milwaukee, Wis.
Cronk, Jefferson '32 Menomonie, Wis.
Cryderman, Charles '32 Detroit, Mich.
Cusuhman, F. A. '31 Rewey, Wis.
Cvengros, Steve A. '32 Ironwood, Mich.
Dehlinger, Arthur L. '33 Wausau, Wis.
Dockar, Jas. Watt '31 Menomonie, Wis.
Dodge, James C. '31 Menomonie, Wis.
Doetze, Fred '32 Whitewater, Wis.
Doyle, Paul Q. '33 Menomonie, Wis.
Doyle, James K. '31 Menomonie, Wis.
Early, James M. '30 Ames, Ia.
Eng, Sidney A. '30 Chetek, Wis.
Englesby, Rex '31 Eleva, Wis.
Enli, Olav '31 Menomonie, Wis.
Erdman, Alvin '33 Augusta, Wis.
Favor, Ray '32 Viroqua, Wis.
Feirer, Dave '31 Menomonie, Wis.
Fladoes, Marvin E. '33 Menomonie, Wis.
Foley, Nellie sp Melrose, Mass.
Fordham, Adolph '32 N. St. Paul, Minn.
Fraser, Roland R. '31 Norfolk, Nebr.
Freeberg, A. E. '30 Winona, Minn.
Funk, Gordon C. '33 Rib Lake, Wis.
Gardiner, Leo A. Elmwood, Wis.
Gilbertson, Stanley '33 Stoughton, Wis.
Gilles, Albert '30 La Crosse, Wis.
Gillis, Edward, '33 Ansonia, Conn.
Goodrich, Neal J. sp Durand, Wis.
Goodrich, Albert '31 Eau Claire, Wis.
Graf, Rolland '33 Chippewa, Wis.
Green, Daniel '32 Menomonie, Wis.
Griffeth, Frances E. '33 Jacksonville, Ill.
Guelson, Stanley '32 Brodhead, Wis.
Haase, Herbert W. '33 Menomonie, Wis.
Haase, Leon '32 Wausau, Wis.
Haas, Philip '32 Menomonee Falls, Wis.
Hagen, Bernhard '31 Decorah, Ia.
Hagen, Reuben E. '32 Waseca, Minn.
Hageness, Ervin O. '32 Osseo, Wis.
Halverson, Clayton O. '31 Madison, Wis.
Halverson, Earl '32 St. Paul, Minn.
Hansen, Albert L. sp St. James, Minn.
Hanson, Clifford '33 Bloomer, Wis.
Hanson, Willard '31 N.St. Paul, Minn.
Harmon, Charles E. '33 Menomonie, Wis.
Harmon, Henry '32 Eau Galle, Wis.
Harmon, John R. '33 Eau Galle, Wis.
Harrison, Henry '33 Menomonie, Wis.
Hawkes, Lester L. sp Sheldon, Ill.
Heath, Sidney '31 Wells, Minn.
Henderson, Hector '30 Menomonie, Wis.
Hermann, Elmer A. sp Menomonie Wisconsin
Hintz, Walter R. '31 Menomonie, Wis.
Hoernamann, Carl '32 Menomonie, Wis.
Hoeser, William '32 Durand, Wis.
Hoger, Wesley '32 Charles City, Ia.
Holloway, Clyde C. sp Madison, Wis.
Hooper, Thomas '32 Janesville, Wis.
Howard, Roy '33 Zion, Ill.
Howe, Henry F. '33 Brodhead, Wis.
Husko, Walter H. '32 Biwabik, Minn.
Ida, Alfred E. '32 Fall Creek, Wis.
Jaboubek, Robert A. Phillips, Wis.
Jensen, Louis E. '31 Ashland, Wis.
Johnson, Fred '32 Biwabik, Minn.
Johnson, Gerhard '33 Crystal Falls, Mich.
Johnson, Glenn '33 Menomonie, Wis.
Johnson, Gordon O. '30 Eau Claire, Wis.
Johnson, Lawrence '30 Menomonie, Wis.
Julin, Francis Oscar '31 Lyons, N. Y.
Jungck, Raymond '30 Menomonie, Wis.
Jungck, Thomas '31 Menomonie, Wis.
Kachel, Sydney sp Whitewater, Wis.
Kaiser, Everett '32 Menomonie, Wis.
Kangas, Henry E. '32 Biwabik, Minn.
Kartak, Edwin C. '31 St. Paul, Minn.
Kerkes, Mike Biwabik, Minn.
Kess, Robert B. '31 Menomonie, Wis.
Knilans, Frederic sp Whitewater, Wis.
Knott, Melvin E. '33 Nelma, Wis.
Knutson, Claire '32 Menomonie, Wis.
Kube, Walter H. '31 Arcadia, Wis.
Kukar, Anthony '32 Gilbert, Minn.
Kulaszewicz, Robert '33 Biwabik, Minn.
Kunz, Laurence W. '32 Fall Creek, Wis.
Langenderfer, Fintan '32 Swanton, O.
Larsen, Gerald R. '32 LaCrosse, Wis.
Larson, Andrew '32 Menomonie, Wis.
Larson, Chester '32 Pewaukee, Wis.

Larson, Floyd C. '32	Menomonie,	Wis.
Larson, Louis '33	Menomonie,	Wis.
Lind, Donald '32	Menomonie,	Wis.
Lockin, Earl W. '30	Berea,	Ky.
Lockwood, Glenn, '32	LaCrosse,	Wis.
Lopp, Lawrence '33	Gilbert,	Minn.
Lundeen, Arvid '32	Westboro,	Wis.
McCullough, Marlo '31	Menomonie,	Wis.
McNaughton, R. '33	Eau Galle,	Wis.
Maerzke, John '30	Watertown,	Wis.
Marschner, Paul '30	Eau Claire,	Wis.
Mann, Frank '32	Menomonie,	Wis.
Marsilio, Nicholas '31	Hazelton,	Pa.
Mau, Chester W. '31	Elk Mound,	Wis.
Maxwell, Finley '31	Arkansaw,	Wis.
Merdutt, George '31	Madison,	Wis.
Micheels, William '32	Menomonie,	Wis.
Millar, Marshall '31	Menomonie,	Wis.
Miller, Karl '33	Farmington,	Minn.
Miller, Ronald K. '32	Menomonie,	Wis.
Miller, W. S. '33	Baraboo,	Wis.
Moldenhauer, Donald '31	Fall Creek,	Wisconsin
Morrison, Gould '31	Hibbing,	Minn.
Muller, Ernest A. '31	Charleston,	S. C.
Murray, Robt. '33	Janesville,	Wis.
Murray, William E. '32	Eau Claire,	Wis.
Nauta, Clifford J. '33	Waukegan,	Ill.
Nelson, Clarence C. '32	Ogema,	Wis.
Nelson, Paul C. sp	Menomonie,	Wis.
Nelson, Thos. W. '31	Astoria,	Oregon
Neudecker, Joseph '33	Albert Lea,	Minn.
Ney, Leonard '33	Elk Mound,	Wis.
Nichols, Dwight W. '33	Jackson,	Ohio
Norlin, Norman '33	Park Falls,	Wis.
Notham, John W. '31	Arkansaw,	Wis.
Novak, Eugene M. '33	Chetek,	Wis.
Novascone, Frank L. '31	Milwaukee,	Wis.
Nutting, Delos D. '33	Wadena,	Minn.
O'Connell, Gordon '33	Menomonie,	Wis.
Olson, Miles '33	Strum,	Wis.
Olson, Vernon '33	Wakefield,	Mich.
Palmer, Lewis '32	Mankato,	Minn.
Paulus, Lucian '31	Holland,	Mich.
Peebles, H. D. '33	Richland Center	Wis.
Penn, Keith'32	Black River Falls,	Wis.
Peterson, Arthur J. '32	Eau Claire,	Wis.
Peterson, Earl A. '31	Republic,	Mich.
Peterson, Norman '31	Menomonie,	Wis.
Pierson, Theodore sp	Menomonie,	Wis.
Poellinger, Al. J. '30	LaCrosse,	Wis.
Price, George C. '33	Menomonie,	Wis.
Proudlock, Homer '33	Menomonie,	Wis.
Raddatz, Stanley '31	Madison,	Wis.
Radke, Edward R. '32	Milwaukee,	Wis.
Randecker, Harold '32	Stoughton,	Wis.
Randecker, Harry '32	Stoughton,	Wis.
Redgren, Darrel '33	Menomonie,	Wis.
Reed, Edwin M. sp	New Orleans,	La.
Reese, Melvin L. '31	Hazelton,	Pa.
Reick, Robert G. '32	Ashland,	Wis.
Reinhold, Alfred M. '33	Milwaukee,	Wis.
Reinhold, Charles '31	Milwaukee,	Wis.
Riggs, Kent '31	Jacksonville,	Ill.
Ritzman, Herbert '30	Superior,	Wis.
Roe, Gerhard, '33	Stanley,	Wis.
Roll, Carl L. '32	Mayville,	Wis.
Rose, Homer C. '32	Augusta,	Wis.
Rosenfeldt, Edward '33	'Rib Lake,	Wis.
Ross, Gordon M. '33	Kilbourn,	Wis.
Roswell, T. L. '30	Menomonie,	Wis.
Rowe, Allard '33	Eau Claire,	Wis.
Rowe, Wm. John '33	Houghton,	Mich.
Rude, John '32	Menomonie,	Wis.
Rysberg, Hanno B. '31	Alpha,	Mich.
Salow, Roy '33	Menomonie,	Wis.
Sauter, Lawrence '31	Hopkins,	Minn.
Schaude, Ralph '30	Union Grove,	Wis.
Schlumpf, August '33	Durand,	Wis.
Schmidt, Dietrich '33	Wadena,	Minn.
Schwartz, Edward '33	Menomonie,	Wis.
Shepardson, Ken F. '30	LaCrosse,	Wis.
Shudlick, Arthur H. '32	Rice Lake,	Wis.
Slaughter, John H. '32	Douglas,	Ariz.
Smith, Everett G. '32	Chetek,	Wis.
Smith, R. Bonsall '31	Middlebury,	Vt.
Sommervold, Melvin'31	Menomonie,	Wis.
Soucie, William J. '31	Bonner,	Mont.
Southern, George '33	Westby,	Wis.
Spitznagle, Joe '32	Superior,	Wis.
Stamstad, Oren '33	Black River Falls	Wisconsin
Steen, Harold '33	Osseo,	Wis.
Stindt, Elmer '33	Menomonie,	Wis.
Stori, Arnold, H. '30	Menomonie,	Wis.
Stori, David E. '33	Menomonie,	Wis.
Strong, Chas. R. '30	Chetek,	Wis.
Swant, Geo. M. '30	Menomonie,	Wis.
Swoyer, F. Earl '33	Hazleton,	Pa.
Taufman, Harold '30	Menomonie,	Wis.
Tietz, Harold '33	Menomonie,	Wis.
Trader, Gerald G. '32	Fall Creek,	Wis.
Turnwall, Verner '30	Kearney,	Nebr.
Upson, W. A. '33	Elkhart,	Ind.
Villars, Edmund C. '30	Elgin,	Ill.
Voigtschild, Leonard '33	Menomonie,	Wis.
Vukelich, Matt '32	West Allis,	Wis.
Wallin, Rusell '31	Willmar,	Minn.
Waniga, John '33	Ansonia,	Conn.
Ward Nathaniel P.	Menomonie,	Wis.
Welander, Theodore '30	Milwaukee,	Wis.
Whiting, Francis '32	Antigo,	Wis.
Will, Arthur H. '33	Jefferson,	Wis.
Winn, Noel E. '30	Whitewater,	Wis.
Wolfgram, Harry '31	Menomonie,	Wis.
Wright, Vern Eugene '33	Superior,	Wis.
Zick, Ernest A.	N.St. Paul,	Minn.
Zimmerman, Peter '31	Aurora,	Minn.

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